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

GB/T 3324-2024

Replacing GB/T 3324-2017

General technical requirements for wooden furniture

木家具通用技术条件

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1 Scope

GB/T 3324-2024 is the Chinese general standard for wooden furniture, and it is the one a furniture contract normally cites. It sets the requirements that decide whether a piece is accepted: the materials and the moisture content of the wood, the requirements on the wood-based panels and the edge treatment, the machining and assembly requirements including the fit of joints, the flatness and the squareness, the appearance and surface finish requirements with the permitted defects by surface class, the coating adhesion, hardness and resistance to heat, cold, liquids and abrasion, the requirements on hardware and moving parts, the strength and stability requirements, and the limits on the release of formaldehyde and other harmful substances, together with the test methods, the inspection rules and the marking, packaging, transport and storage. The 2024 edition replaces GB/T 3324-2017. For a furniture maker, an importer or a buyer inspecting a container in China, this is the acceptance text.

This document stipulates the requirements, inspection rules and markings, instructions for use, packaging, transportation and storage of wooden furniture; describes the corresponding test methods; defines terms and definitions; gives classifications. This document is applicable to the quality control of wooden furniture design, production, sales services, inspection and testing.

2 Normative references

The contents in the following documents constitute an indispensable clause in this

document through normative references in the text. Among them, only the version corresponding to the date is applicable to this file; the latest version (including all modifications) of the reference files without the date is applicable to this file.

GB/T 250 Textiles - Tests for color fastness - Grey scale for assessing change in color

GB/T 1043.1 Plastics - Determination of Charpy impact properties - Part

3 Terms and definitions

The terms and definitions defined in GB/T 28202-2020, as well as the following terms and definitions, apply to this document.

3.1 Wooden furniture Except for decorative parts and accessories among the main parts of furniture, the rest are made of wood and other wood materials.

3.2 Solid wood furniture The wooden furniture whose main components are made of solid wood materials, with a surface that has been veneered (or not) solid wood veneer or thin wood (veil) and has been (or not) painted. Solid wood materials include logs, solid wood sawn timber, finger joints, integrated materials and other materials.

3.3 Wood-based panel furniture Panel furniture The wooden furniture whose main components are made of wood-based panels such as fiberboard, particleboard, plywood, wooden board, laminated materials, etc.

3.4 Solid wood and wood-based panel furniture The wooden furniture whose product frames are made of solid wood, whilst the panels or inner panels of the frame are made of decorative wood-based panels. [Source: GB/T 28202-2020, 2.14, modified]

3.5 Wooden furniture made of multiple materials Wooden furniture, which is made of various wooden materials, but cannot be defined as solid wood furniture, panel furniture, and other wooden furniture.

3.6 Outward appearance External visual surface in the initial state of the product.

3.7 Inward appearance The visual surface displayed by the opening of moving parts such as product doors and drawers, partitions or shelves, etc.

3.8 Surface decoration Decoration treatment which is carried out using coating, covering, edge sealing and other processes on the surface or edges of wooden parts of furniture.

Note. The coating process includes scraping, brushing, wipe, pouring, rolling, extracting, dipping, spraying, air spraying, airless spraying, electrostatic spraying and other processes.

4 Categories

The main components and product classification of wooden furniture are in Appendix A.

5 Requirements

5.1 Main dimensions and their deviations The main dimensions and their deviations shall comply with the requirements of Table 1.

5.3 Material requirements

5.3.1 Wood moisture content (basic item) The wood shall be dried and the wood moisture content shall be 8% ~ (the annual average wood balance moisture content in the product area +1%). The annual average timber balanced moisture content of all provinces (autonomous regions, special zones), municipalities and major cities in China is in accordance with Appendix B.

5.3.2 Consistency between marking and physical objects (basic item) The product marking, quality card, instructions for use, and express statements in the sales contract shall be consistent with the wood, wood-based panel and its use parts used in the product. See Appendix C for the standard of material name.

5.3.3 Requirements for wood-based panel materials (contract requirements or arbitration inspection requirements) Wood-based panels and decorative wood-based panels shall be inspected and judged according to the standards agreed in the contract. See Appendix C for commonly used wood-based panel standards.

5.4 Appearance requirements The appearance requirements shall comply with the provisions of Table 3.

5.5 Physical and chemical properties

5.6 Mechanical properties The mechanical properties of wooden furniture are shown in Table

6.Special test conditions and requirements can be agreed upon by the supplier and the buyer and stated in the contract.

5.7 Structural safety (basic item) It shall comply with the corresponding provisions of GB 28008-2024.

5.8 Limited amount of hazardous substances (basic items) It shall comply with the corresponding provisions of GB 18584-2024.The testing of formaldehyde, benzene, toluene, xylene, total volatile organic compounds (TVOC) is only applicable to indoor wooden furniture products.

5.9 Electrical safety (basic item) The electrical part in the product shall comply with the relevant provisions of GB 44246-2024.

5.10 Flame retardancy (basic item) The soft cladding in the product shall comply with the