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

**GB/T 22517.1-2024**

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**Technical requirements and test methods for sports field - Part  
1: Wooden floor for multipurpose gymnasium**

体育场地使用要求及检验方法 第1部分：综合体育场馆木地板场地

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## 10 Reference

## 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. This document is Part 1 of GB/T 22517 "Requirements for the use and inspection methods of sports venues". Lower part.

1. Wooden flooring for sports venues;

2. Swimming venues;

3. Baseball and softball fields;

4. Synthetic surface basketball courts;

5. Football pitch;

6. Track and field venues;

7. Tennis courts;

8. Sports ice rinks;

10. Squash courts;

11. Hockey fields. This document replaces GB/T 19995.2-2005 "Natural material sports venues - Requirements and test methods - Part

2. Comprehensive sports venues" Compared with GB/T 19995.2-2005, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

--- Changed the content of "Scope" (see Chapter 1, Chapter 1 of GB/T 19995.2-2005);

## 1 Scope

GB/T 22517.1-2024 sets the requirements and test methods for the timber sports floor of a multipurpose gymnasium. A sports floor is a mechanical system rather than a surface: what protects a player's joints is the shock absorption of the sprung construction beneath the boards, what determines ball sports is the vertical deformation and the ball rebound, and what causes injuries when it is wrong is the friction, too little and players slip, too much and they catch. The standard sets the categories of floor, then the requirements: the basic requirements, the appearance of the finished court, the physical and chemical properties of the timber and the finish, and the sports performance of the assembled system, shock absorption, vertical deformation, ball rebound, sliding friction, rolling load, area deflection

and surface planarity, together with the formaldehyde and volatile emissions and the fire behaviour. It then gives the test methods for each of those, the inspection rules and the acceptance of a completed installation. It takes effect on 1 February 2025.

This document specifies the classification and requirements for sports wooden flooring, describes the corresponding inspection methods, and establishes the rules for determining eligibility. This document applies to the construction and inspection of sports wooden flooring used in indoor sports events. Stages, dance halls, amusement halls, etc. Wooden flooring venues can be used for reference. This document is not applicable to wooden sports floors for indoor sports with special requirements, such as weightlifting, throwing, etc.

## 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 1768 Paints and varnishes - Determination of abrasion resistance - Rotating rubber grinding wheel method

GB 8624-2012 Classification of combustion performance of building materials and products

GB/T 9754-2007 Paints and varnishes - Determination of specular gloss at 20°, 60° and 85° of paint films without metallic pigments

GB/T 15036.1-2018 Solid wood flooring Part

## 3 Terms and Definitions

The following terms and definitions apply to this document.