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**Basketball courts with synthetic surfaces for primary and
middle schools**

中小学合成材料面层篮球场地

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Venue Classification	3
14 Signage	8
13 Signs	10

Foreword

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This document is a supporting standard for the mandatory national standard GB 36246-2018 "Synthetic Material Surface Sports Venues for Primary and Secondary Schools": It is aimed at primary and secondary schools: The design, site foundation, paving, appearance, specification lines, flatness, slope, thickness, physical and mechanical properties of synthetic material surface basketball courts, Standard requirements are put forward for weathering and aging resistance: These requirements are essential and crucial to effectively guarantee the performance of the basketball court: It will help further standardize the quality of basketball courts in primary and secondary schools and help comprehensively improve school running conditions: Provide technical support to strengthen the overall quality and cultivate socialist builders and successors with comprehensive development of moral, intellectual, physical, artistic and labor development: Synthetic surface basketball courts for primary and secondary schools

1 Scope

China's national standard for synthetic basketball court surfaces at primary and middle schools. It is the companion to the track and field standard and shares its origin in the contaminated school surfaces of the mid-2010s, and its requirements are built on the same two pillars: what the surface must be made of and what it may emit, tested both on the material and on the installed court. The performance requirements differ from a running track's because the sport does. A basketball surface is judged on ball rebound, which must be consistent across the court and close to that of a hard floor; on slip resistance, which has to be enough to allow a sudden stop and not so much that a pivot tears a knee; and on shock absorption, which protects joints during repeated landings. Those three trade against one another, which is why they are specified together rather than individually.

This document gives the classification of synthetic surface basketball courts for primary and secondary schools and stipulates the requirements, sampling requirements, inspection rules and maintenance maintenance, and the corresponding test methods are described: This document applies to the design, construction and construction of outdoor cast-in-place surface and prefabricated surface basketball courts that are newly built, renovated and expanded in primary and secondary schools: acceptance:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

GB/T 3516 Determination of rubber solvent extractables

GB/T 14833 Synthetic sports ground floor

GB/T 15905-1995 Humid heat aging test method for vulcanized rubber

GB/T 16422:2-2022 Plastic laboratory light source exposure test methods Part 2: Xenon arc lamp GB/T 19995:

2 Natural material sports venues use requirements and inspection methods Part 2: Comprehensive sports venues wooden floor venues

GB 36246 Primary and secondary school synthetic material surface sports venues

JB/T 12202 wedge feeler gauge JGJ146 Construction site environment and health standards for construction projects JTG3450 Highway subgrade pavement field testing procedures QB/T 2443 steel tape measure

3 Terms and definitions

The terms and definitions defined in GB 36246 and the following apply to this document:

3:1 synthetic surface A layer of polymer synthetic material paved on a base layer such as asphalt concrete or cement concrete:

Note: The synthetic surface layer mainly includes cast-in-place surface layer, prefabricated surface layer and artificial grass surface layer: [Source: GB 36246-2018, 3:1, with modifications] 3:2 in-situ casting surface The surface layer of the pavement is poured on-site using polymer raw materials and other raw materials:

Note: The cast-in-place surface layer is divided into a permeable surface layer and a non-permeable surface layer: The non-permeable surface layer is further divided into a composite surface layer, a mixed surface layer and a fully plastic surface layer: [Source: GB 36246-2018, 3:2, with modifications] 3:3 permeable surface It has a pore structure: In addition to surface runoff, water also flows through the surface layer of the synthetic material surface layer: