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Sports surface performance test method - Part 7: Vertical ball rebound performance

运动面层性能测试方法 第7部分：垂直球反弹

(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" drafted.

This document is part 7 of TY/T 2003 "Testing Methods for Performance of Sports Surfaces". TY/T 2003 has or will release the following part.

--- Part 1: Specifications;

--- Part 2: Thickness;

--- Part 3: Anti-slip value;

--- Part 4: Shock absorption;

--- Part 5: Vertical deformation;

--- Part 6: Ball rolling performance;

--- Part 7: Vertical ball bounce;

--- Part 8: Rolling load;

--- Part 9: Tensile properties of synthetic materials.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

The surface performance test method is an important technical support to verify whether the sports surface meets the requirements for use, ensure sports safety, and ensure the quality of the venue.

support. TY/T 2003 "Sports Surface Performance Test Methods" series of standards aim to

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consolidate the basic standard system of sports facilities and equipment, provide scientific, an efficient and advanced method for testing motion surfaces. In order to avoid the length of the standard and simplify the process of using the standard query, the standard will move the surface layer performance.

The test methods for each project are respectively established and are to be composed of the following parts.

--- Part 1: Specifications. The purpose is to provide a detection method for the flatness, slope, size, angle, etc. of the moving surface layer.

--- Part 2: Thickness. The purpose is to provide a detection method for the thickness and absolute thickness of the moving surface layer.

--- Part 3: Anti-slip value. The purpose is to provide a detection method for the anti-slip value of the moving surface.

--- Part 4: Shock absorption. The purpose is to provide a detection method for the impact absorption of the sports surface layer.

--- Part 5: Vertical deformation. The purpose is to provide a detection method for the vertical deformation and standard vertical deformation of the moving surface layer.

--- Part 6: Ball rolling performance. The purpose is to provide a detection method for the ball rolling performance of the moving surface layer.

--- Part 7: Vertical ball bounce. The purpose is to provide detection for the vertical ball bounce height and vertical ball bounce rate of the sports surface layer method.

--- Part 8: Rolling loads. The purpose is to provide a detection method for the rolling load of the moving surface layer.

--- Part 9: Tensile properties of synthetic materials. The purpose is to provide a detection method for the tensile strength and elongation at break of the sports surface layer.

Sports surface performance test method Part 7: Vertical Ball Bounce Caution - Persons using this document should have practical experience in formal laboratory work. This document does not address all possible security issues it is the user's responsibility to take appropriate safety and health measures, and to ensure compliance with the conditions stipulated by the relevant national regulations.

1 Scope

This document specifies the test principle, test conditions, equipment, samples, test procedures and data processing of the vertical ball rebound performance of the sports surface layer.

management, test reports, etc.

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This document is suitable for testing the vertical ball rebound performance of the sports surface layer.

2 Normative references

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

GB 50010 Specification for Design of Concrete Structures

3 Terms and Definitions

The following terms and definitions apply to this document.

sportssurface

A surface layer with sports function and sports protection function that directly withstands various physical and chemical effects.

[Source. GB/T 38373-2019, 2.1.1] 3.2 it is used for the performance test of the sports surface layer (3.1) and meets the requirements of the relevant sports competition rules.

vertical ball rebound Rebound performance of the sports surface layer (3.1) against a vertically falling test ball (3.2).

Note: Usually expressed as vertical ball bounce height (3.4) or vertical ball bounce rate (3.5).

The maximum height at which the test ball (3.2) falls vertically on the sports surface (3.1) for the first rebound.

Percentage of the maximum height of the first bounce of the test ball (3.2) falling vertically on the concrete surface and the sports surface (3.1).

restingtimeconstant

Characterize the constant for the contact time of the test ball (3.2) with the sports surface layer (3.1) after vertical fall.

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