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Performance test method of sports surface layer - Part 5: Vertical deformation

运动面层性能测试方法 第5部分：垂直变形

(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 5 of TY/T 2003 "Test 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 5: Vertical deformation 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 relevant national regulations.

1 Scope

This document specifies the principles, test conditions, test methods, test reports and other requirements for the vertical deformation performance of the moving surface.

This document is suitable for testing the vertical deformation performance of the moving surface layer.

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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 50107-2010 Concrete Strength Inspection and Evaluation Standard TY/T 2003.4-2021 Test method for sports surface performance part 4.Shock absorption inimpacttests-Instrumentation)

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 point-elasticsportssurface A moving surface that undergoes limited bending deformation at or near the point of impact when subjected to an impact force.

[Source. GB/T 38373-2019, 2.1.2] 3.3 area-elasticsportssurface A moving surface that generally bends and deforms in a large area around the point of impact when subjected to an impact force.

[Source. GB/T 38373-2019, 2.1.3] 3.4 Combination-elasticsportssurface the upper layer of the surface elastic movement surface layer is attached with a point elastic movement surface layer, and when the surface layer is subjected to an impact force, it will be uniform in the focus point and a large range around it.

Bending deformation may occur.

[Source. GB/T 38373-2019.2.1.4]

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