

Surfaces for sports areas - Determination of shock absorption

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14808:2006 sisaldab Euroopa standardi EN 14808:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 27.02.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14808:2006 consists of the English text of the European standard EN 14808:2005.</p> <p>This document is endorsed on 27.02.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This European Standard specifies a method for the determination of shock absorption characteristics of sports surfaces.</p>	<p>Scope: This European Standard specifies a method for the determination of shock absorption characteristics of sports surfaces.</p>
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ICS 97.220.10

Võtmesõnad:

ICS 97.220.10

English Version

Surfaces for sports areas - Determination of shock absorption

Surfaces de sols sportifs - Détermination de l'absorption
des chocs

Sportböden - Bestimmung des Kraftabbaus

This European Standard was approved by CEN on 28 November 2005.

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Foreword

This European Standard (EN 14808:2005) has been prepared by Technical Committee CEN/TC 217 "Surfaces for sports areas", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2006, and conflicting national standards shall be withdrawn at the latest by June 2006.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This European Standard specifies a method for the determination of shock absorption characteristics of sports surfaces.

NOTE The method specified is commonly known as the Artificial Athlete (Berlin) method.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 12229, *Surfaces for sports areas — Procedure for the preparation of synthetic turf and textile test pieces*

ISO 6487, *Road vehicles — Measurement techniques in impact tests — Instrumentation*

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

3.1

area-elastic sports surface

sports surface, to which the application of a point force causes deflection over a relatively large area around the point of application of the force

3.2

point-elastic sports surface

sports surface, to which the application of a point force causes deflection only at or close to the point of application of the force

3.3

combination-elastic sports surface

area-elastic sports surface with a point-elastic top layer, to which the application of a point force causes both localized deflection and deflection over a wider area

3.4

mixed-elastic sports surface

point-elastic sports surface with an area-stiffening component

NOTE A mixed-elastic sports surface has deflection characteristics between those of an area-elastic surface and a point-elastic surface.

3.5

shock absorption

ability of a sports surface to reduce the impact force of a body falling onto the surface

NOTE Shock absorption is a physical quantity consisting of damping and resilience due to a certain impact.

4 Principle

A weight is allowed to fall onto a spring placed on the test piece and the maximum force applied is recorded. The difference between this force and the maximum force measured on a hard surface is reported as the force reduction.