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Surfaces for sports areas - Determination of resistance to impact

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 1517:2020 sisaldab Euroopa standardi EN 1517:2020 ingliskeelset teksti.	This Estonian standard EVS-EN 1517:2020 consists of the English text of the European standard EN 1517:2020.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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EUROPEAN STANDARD

EN 1517

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 97.220.10

Supersedes EN 1517:1999

English Version

Surfaces for sports areas - Determination of resistance to impact

Sols sportifs - Détermination de la résistance au choc

Sportböden - Bestimmung der Schlagfestigkeit

This European Standard was approved by CEN on 2 March 2020.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European foreword

This document (EN 1517:2020) has been prepared by Technical Committee CEN/TC 217 “Surfaces for sports areas”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by November 2020, and conflicting national standards shall be withdrawn at the latest by November 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1517:1999.

The main changes compared to the previous edition are listed below:

- enhanced description of test apparatus,
- more defined procedure for assessing cracking, delamination or permanent indentation,
- procedure for on-site tests.

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

1 Scope

This document specifies a method for the determination of resistance to impact of sports floor systems. It is primarily designed to be used on surfaces intended for use in indoor sports halls. The test can be undertaken in the laboratory or on site.

When undertaking tests on site, it is important to note that permanent damage to the sports floor can be caused.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following term and definition applies.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp/ui>

3.1

cracking

vertical damage in the coating or top layer a minimum of 300 μm deep or any tearing or splitting damage to the underlying layers in the sports floor system

4 Principle

A weighted indenter is dropped from a given height onto the surface and the area of impact is subsequently examined for damage.

5 Apparatus

5.1 A cylindrical indenter as shown in Figure 1 and having a diameter $(11,3 \pm 0,3)$ mm, with a flat contact surface having an edge radius of diameter $(1,25 \pm 0,1)$ mm, a mass of (800 ± 10) g and means of dropping the indenter vertically down a guide tube from a height of $(1 \pm 0,01)$ m, essentially without friction.

5.2 Pocket-lens/microscope with a magnification of x 4.

5.3 Laboratory thermometer capable of recording the surface temperature of the test specimen to 0,5 °C.