



**SLOVENSKI STANDARD**  
**SIST EN 1517:2002**  
**01-september-2002**

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**Podloge za športne dejavnosti – Ugotavljanje odpornosti proti udarcu**

Surfaces for sports areas - Determination of resistance to impact

Sportböden - Bestimmung der Schlagfestigkeit

Sols sportifs - Détermination de la résistance au choc

**Ta slovenski standard je istoveten z: EN 1517:1999**

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**ICS:**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 1517

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ICS 97.150.00; 97.220.10

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 27 October 1999.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Foreword

This European Standard 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of an identical text or by endorsement, at the latest by June 2000, and conflicting national standards shall be withdrawn at the latest by November 2002.

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

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## 1 Scope

This European standard specifies a method for the determination of resistance to impact of certain surfaces for sports areas.

## 2 Principle

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

## 3 Apparatus

**3.1** A cylindrical indenter, of diameter  $(11,3 \pm 0,3)$  mm, with a flat contact surface having an edge radius of diameter  $(1,25 \pm 0,1)$  mm, and means of dropping the indenter vertically down a guide tube from a height of  $(1 \pm 0,01)$  m, essentially without friction. The mass of the indenter shall be as given in the performance specification or as agreed between the interested parties.

## 4 Test specimen

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Prepare a specimen of the surface of minimum length 300 mm and minimum width 300 mm, in combination with the supporting layers with which it is to be used in service, using the recommended method of attachment in accordance with the manufacturer's instructions.

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NOTE: For certain constructions, e.g. dynamic base or area elastic floors, a larger test piece can be required, to be representative of a complete construction.

## 5 Conditioning

Condition the test specimen for a minimum of 3 h at the test temperature, of between 8 °C and 10 °C, except where the material is known to be sensitive to humidity, in which case condition it for a minimum of 88 h at  $(50 \pm 5)\%$  relative humidity at the test temperature. Ensure that the test is carried out within such time that the specimen remains within 1 °C of the conditioning temperature.

NOTE. If required, the test can be carried out under the prevailing site temperature conditions. Tests can also be carried out on the complete construction.

## 6 Procedure

Arrange the indenter and guide tube in position over the test specimen and ensure that the guide tube is vertical and the surface of the test specimen is horizontal.

Release the indenter without shock and allow it to impact the centre of the test specimen.

If the test specimen is removed from the conditioning environment for test, impact it within 20 s of removal.

Over the 24 h period immediately following the test, examine the test specimen for damage, including, if necessary, cutting a section through the point of impact.

## 7 Expression of results

Observe and record any cracking, splitting, delamination or permanent indentation of the specimen.

## 8 Test report

The test report shall contain the following :

- a) the number and date of this standard, i.e. EN 1517:1999;
- b) complete identification of the surface tested including type, manufacturer's reference and previous history;
- c) the temperature at which the test was carried out;
- d) the mass of the indenter;
- e) the results of the test in accordance with clause 7.

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