SLOVENSKI STANDARD
oSIST prEN 1569:2019

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Podloge za športne dejavnosti - Ugotavljanje obnašanja pri kotalni obremenitvi

Surfaces for sports areas - Determination of the behaviour under a rolling load

Sportböden - Bestimmung des Verhaltens bei rollender Last

Sols sportifs - Détermination du comportement sous charge roulante

Ta slovenski standard je istoveten z: **prEN 1569**

ICS:

97.220.10	Športni objekti	Sports facilities

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English Version

Surfaces for sports areas - Determination of the behaviour under a rolling load

Sols sportifs - Détermination du comportement sous charge roulante

Sportböden - Bestimmung des Verhaltens bei rollender Last

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 217.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 1569:2018) has been prepared by Technical Committee CEN/TC 217 “Surfaces for sports areas”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 1569:1999.

1 Scope

This document specifies a method of test for the determination of behaviour under a rolling load of certain surfaces for sports areas. It is suitable for tests undertaken in the laboratory and on site.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

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 http://www.iso.org/obp

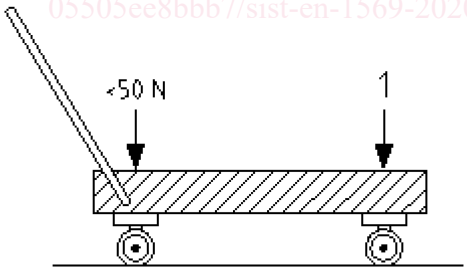
4 Principle

The behaviour under a rolling-load is determined by stressing the critical area, e.g. joints, welded joints, etc., of an indoor sports surface by the repeated traversing of a loaded wheel and observing any resulting damage.

5 Apparatus

5.1 Loaded wheel apparatus

NOTE The apparatus is shown schematically in Figure 1.



Key

1 load

Figure 1 — Schematic illustration of the loaded wheel apparatus

5.1.1 A steel test wheel, of diameter (100 ± 1) mm and width (30,0 ± 0,3) mm with the edges rounded to a radius of (1 ± 0,1) mm.

5.1.2 A rigid plate, for example of steel or timber, of minimum thickness 50 mm, with two supporting wheels, in addition to the test wheel.

5.1.3 A means of moving the apparatus backwards and forwards over the test specimen at a velocity of approximately 1 m/s. This may be achieved by manual movement using a Metronome or similar to set the pace of movement or by mechanical means such as an automated drive system.

5.1.4 Weights, positioned such that the centre of gravity of the apparatus is directly over the axle of the test wheel. The test wheel is loaded with a force as given in the product specification or as agreed between the interested parties. The load on the supporting wheels is not greater than 50 N.

5.2 Two guide tracks at least 5 mm high by 700 mm long that can be temporarily, but securely, mounted (eg. using double-sided adhesive tape) 50 mm apart to the test specimen to ensure the test wheel always passes over the same area.

If an automated test rig is used where the sample trolley is moved by mechanically the test tracks are not required.

5.3 A means of measuring residual indentation to ± 0,5 mm.

6 Test specimen

Prepare a specimen of surface of minimum length 1 500 mm and minimum width 1500 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.

7 Conditioning

Condition the test specimen for a minimum of 3 h at a temperature of (23 ± 2) °C.

NOTE If required, tests can be carried out under the prevailing site conditions.

8 Procedure

Attach the guide tracks along the critical area of the test piece so they are 50 mm + 0/-5 mm apart and at least 100 mm from the edge of the test specimen.

Locate the test wheel within the guide tracks and roll the apparatus forwards and back over the critical areas of the test piece at a velocity of approximately 1 m/s within a test strip of 50 mm width 300 times as illustrated in Figure 2.