



SLOVENSKI STANDARD SIST EN 17326:2020

01-julij-2020

Podloge za športne dejavnosti - Ugotavljanje dimenzijske stabilnosti oblog za blaženje udarcev pri športnih podlogah

Surfaces for sports areas - Determination of dimensional stability of shock pads used within sports systems

Sportböden - Bestimmung der Dimensionsstabilität von elastifizierenden Schichten in Sportsystemen

Sols sportifs - Détermination de la stabilité dimensionnelle des tapis absorbant les chocs dans les systèmes de sols sportifs

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97.220.10 Športni objekti Sports facilities

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EUROPEAN STANDARD

EN 17326

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2020

ICS 97.220.10

English Version

Surfaces for sports areas - Determination of dimensional stability of shock pads used within sports systems

Sols sportifs - Détermination de la stabilité dimensionnelle des tapis absorbant les chocs dans les systèmes de sols sportifs

Sportböden - Bestimmung der Dimensionsstabilität von elastifizierenden Schichten in Sportsystemen

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

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 17326:2020) 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of an identical text or by endorsement, at the latest by November 2020, and conflicting national standards shall be withdrawn at the latest by November 2020.

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EN 17326:2020 (E)**1 Scope**

This document specifies a method for determining the dimensional stability (bowing and curling) of shockpads used within sports surface systems.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 188, *Rubber, vulcanized or thermoplastic — Accelerated ageing and heat resistance tests*

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 <https://www.iso.org/obp/ui>

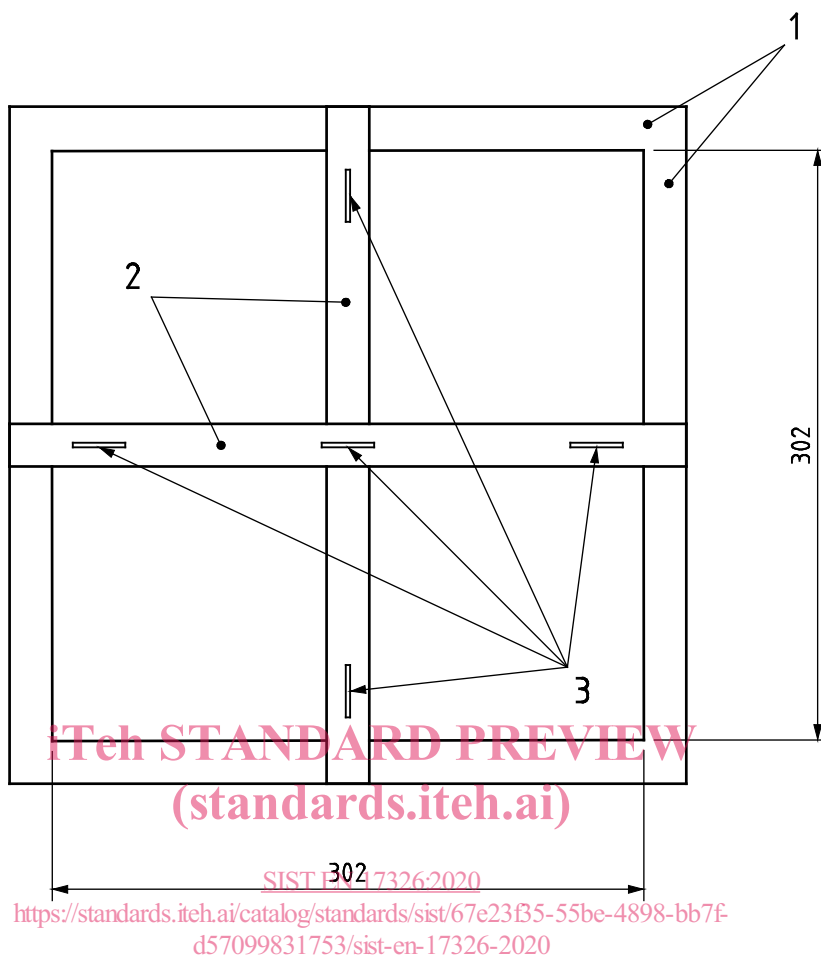
4 Apparatus**4.1 Test rig**

In accordance with Figures 1 and 2, comprising a flat rigid base plate and adjustable side frame with internal dimensions of 302 mm × 302 mm. The side frame shall be rigid and 50 mm ± 5 mm in height. The test rig shall allow the measurement of the distance between the test specimen and a fixed guide bar in three positions in two directions at 90° to each other to an accuracy of ±1 mm. The minimum distance between the top of the test specimen and reference bar shall be 100 mm. The measurement positions shall be:

- over the centre of the test specimen; and
- 10 mm ± 2 mm from the edge of the test specimen in each direction.

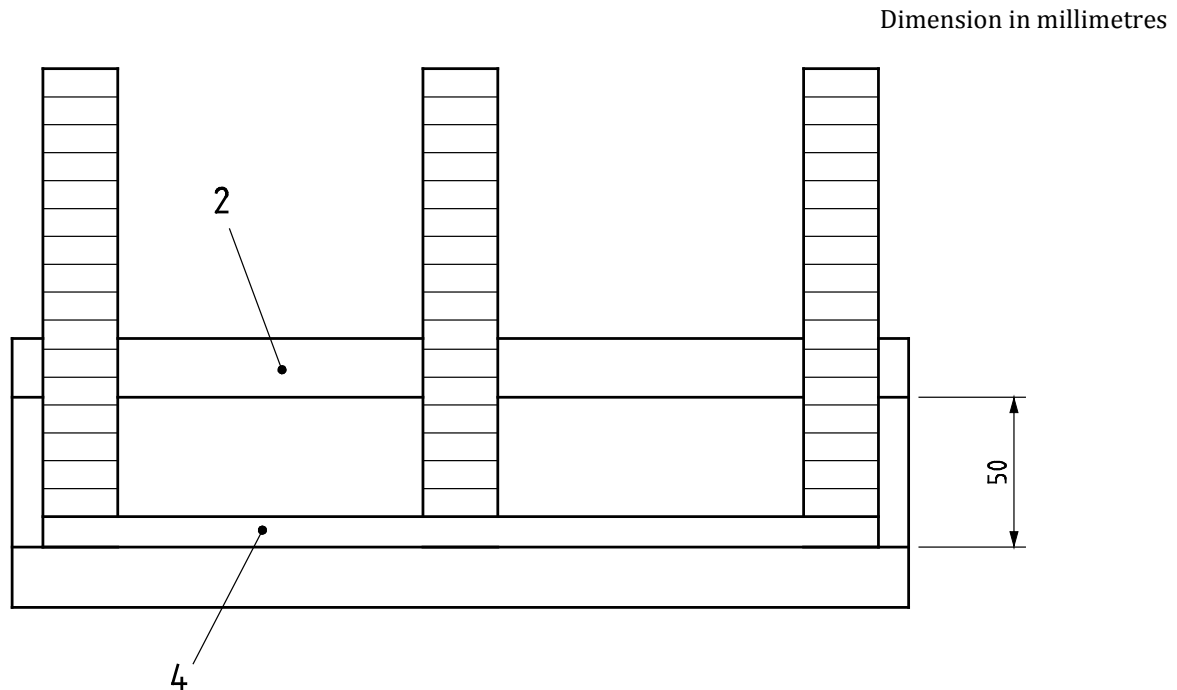
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Dimensions in millimetres

**Key**

- 1 sliding frame
- 2 guide bar
- 3 graduated scale (mm)

Figure 1 — Test rig (plan view)

**Key**

- 2 guide bar
- 4 sample

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Figure 2 — Test rig (side elevation)

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4.2 Air circulating oven

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In conformity with ISO 188 and capable of maintaining a test temperature of $70\text{ °C} \pm 2\text{ °C}$.

5 Test specimens

Three samples of the shockpad, each measuring $300\text{ mm} \pm 1\text{ mm} \times 300\text{ mm} \pm 1\text{ mm}$.

6 Procedure

6.1 Place a test specimen in the test rig (4.1) and adjust the side frames so that on all four sides of the test specimen there is a gap of $1\text{ mm} \pm 0,25\text{ mm}$ between the test specimen and the test frame.

6.2 Measure the height between the test specimen and the guide bar in each test position (five in total).

6.3 Place the test rig containing the test specimen into the air circulating oven (4.2) at a temperature of $70\text{ °C} \pm 2\text{ °C}$. After conditioning the test specimen for $240\text{ min} \pm 10\text{ min}$, remove the test rig and within $5\text{ min} \pm 1\text{ min}$ measure the distance between the test specimen and the reference bar in each test position.

6.4 Allow the test rig and specimen to condition at $23\text{ °C} \pm 2\text{ °C}$ for $24\text{ h} \pm 1\text{ h}$ before repeating steps 6.2 and 6.3 two further times.

6.5 Repeat the procedure on the second and third test specimen.

Figure 3 shows an example of shockpad deformation after test method.