

Surfaces for sports areas - Test method for the determination of the residual deformation of synthetic or organic infill granules after static load

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NATIONAL FOREWORD

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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 and Accreditation.
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English Version

Surfaces for sports areas - Test method for the determination of the residual deformation of synthetic or organic infill granules after static load

Sols sportifs - Méthode d'essai de détermination de la déformation résiduelle de granulats de remplissage synthétiques ou organiques après application d'une charge statique

Sportböden - Prüfverfahren zur Bestimmung der Restverformung von synthetischen oder organischen Einstreugranulaten nach statischer Belastung

This European Standard was approved by CEN on 24 January 2022.

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 COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 17467:2022) 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of an identical text or by endorsement, at the latest by September 2022, and conflicting national standards shall be withdrawn at the latest by September 2022.

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.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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1 Scope

This document specifies a test method for the determination of the residual deformation and visual inspection of synthetic or organic granules used in synthetic turf for sports surfaces after static load.

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.

EN 932-2, *Tests for general properties of aggregates - Part 2: Methods for reducing laboratory samples*

EN 933-1, *Tests for geometrical properties of aggregates - Part 1: Determination of particle size distribution - Sieving method*

ISO 5893, *Rubber and plastics test equipment — Tensile, flexural and compression types (constant rate of traverse) — Specification*

3 Terms and definitions

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

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

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

3.1

residual deformation

difference between the initial thickness and the thickness of a sample layer of granules measured 30 min after the removal of the load

3.2

visual inspection

assessment by eye for signs of conglutination or oil secretion of the granules

3.3

particle grading, d

starting with the smallest sieve, d is the biggest sieve with less than 10 % of the sample passing (between 0 % and 10 % of the infill total weight is smaller than d)

3.4

particle grading, D

starting from the biggest sieve, D is the smallest sieve with less than 10 % of the sample being retained (between 0 % and 10 % of the infill total weight is bigger than D)

4 Safety

Adequate safety measures shall be in place to maintain a safe working area in accordance with appropriate regulations.