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Surfaces for sports areas - Synthetic turf and needle-punched surfaces primarily designed for outdoor use - Part 4: Specification for shockpads used with synthetic turf, needle-punch and textile sports surfaces

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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English Version

Surfaces for sports areas - Synthetic turf and needle-punched surfaces primarily designed for outdoor use - Part 4: Specification for shockpads used with synthetic turf, needle-punch and textile sports surfaces

Sols sportifs - Surfaces en gazon synthétique et surfaces en textile aiguilleté principalement destinées à l'usage en extérieur - Partie 4 : Spécifications relatives aux couches de souplesse utilisées avec les sols sportifs en gazon synthétique, en textile et en textile aiguilleté

Sportböden - Überwiegend für den Außenbereich hergestellte Kunststoffrasenflächen und Nadelfilze - Teil 4: Festlegungen für Elastikschichten, die in Kunststoffrasenflächen, Nadelfilzen und textilen Sportbelägen eingesetzt werden

This European Standard was approved by CEN on 16 October 2022.

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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 15330-4:2022) 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of an identical text or by endorsement, at the latest by June 2023, and conflicting national standards shall be withdrawn at the latest by June 2023.

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.

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1 Scope

This document specifies minimum performance and durability requirements for shockpads used within synthetic turf and textile sports surfacing systems.

The document also specifies appropriate performance tolerance for production and on-site quality control procedures.

This document does not cover structural properties of shockpads. Where appropriate, compliance with other European or national standards and guidelines for these aspects should be followed.

NOTE 1 The sports performance characteristics of a sports surfacing system are provided by the combined characteristics of the playing surface, any infill within the playing surface and the shockpad. The selection of the correct combination of each is complex and the responsibility of the sports surface system designer. It is important to take this into account when considering the performance of a shockpad. A shockpad alone is not be expected to satisfy the performance requirements of the complete sports surfacing system as specified in EN 15330-1, E, etc.

NOTE 2 Some forms of innovative shockpad are designed to provide additional functions beyond aiding the provision of the required sports performance properties. Some of these additional functions can, by design, mean that full compliance with all requirements of this document is not appropriate.

NOTE 3 This document only refers to the shockpad. It makes no recommendations on sub-base constructions or the different synthetic turf for needle-punch textile sports surface designs.

NOTE 4 Annex E (informative) can be used in those countries where national guidance or regulations are not available. If such guidance or regulations are available, they supersede Annex E.

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 amendment) applies.

EN 1969, *Surfaces for sports areas - Determination of thickness of synthetic sports surfaces*

EN 12616, *Surfaces for sports areas - Test methods for the determination of vertical water infiltration and horizontal water flow rates*

EN 13817, *Surfaces for sports areas - Procedure for accelerated ageing by exposure to hot air*

EN 12230, *Surfaces for sports areas - Determination of tensile properties of synthetic sports surfaces*

EN 12664, *Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Dry and moist products of medium and low thermal resistance*

CEN/TS 16717, *Surface for sports areas - Method of test for the determination of shock absorption, vertical deformation and energy restitution using the advanced artificial athlete*

EN 17324, *Surfaces for sports areas - Test method for the determination of the resistance to dynamic fatigue of shock pads and sports surfaces*

EN ISO 1183 (all parts), *Methods for determining the density of non-cellular plastics (ISO 1183 (all parts))*

EN ISO 527 (all parts), *Plastics - Determination of tensile properties (ISO 527 (all parts))*

EN ISO 845, *Cellular plastics and rubbers - Determination of apparent density (ISO 845)*

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

ISO 8543, *Textile floor coverings — Methods for determination of mass*