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Standards

Irish Standard  
I.S. EN 14877:2013

# Synthetic surfaces for outdoor sports areas - Specification

## I.S. EN 14877:2013

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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English Version

## Synthetic surfaces for outdoor sports areas - Specification

Revêtements synthétiques pour terrains de sport en plein  
air - Spécification

Kunststoffflächen auf Sportanlagen im Freien -  
Anforderungen

This European Standard was approved by CEN on 25 July 2013.

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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<b>Contents</b>		<b>Page</b>
<b>Foreword</b> .....		<b>3</b>
<b>1</b>	<b>Scope</b> .....	<b>4</b>
<b>2</b>	<b>Normative references</b> .....	<b>4</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>5</b>
<b>4</b>	<b>Laboratory test requirements</b> .....	<b>5</b>
<b>5</b>	<b>Facility tests</b> .....	<b>12</b>
<b>Annex A</b> (informative) <b>Examples of surfacing and fields of application</b> .....		<b>19</b>
<b>Annex B</b> (normative) <b>Preparation of wet test pieces</b> .....		<b>20</b>
<b>Bibliography</b> .....		<b>21</b>

## **Foreword**

This document (EN 14877:2013) 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of an identical text or by endorsement, at the latest by March 2014, and conflicting national standards shall be withdrawn at the latest by March 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 14877:2006.

Compared with EN 14877:2006, the text has been clarified and editorial errors have been corrected.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## 1 Scope

This European Standard specifies the requirements for synthetic (polymeric) surfaces (installed *in situ* and prefabricated) for outdoor sports facilities. It covers synthetic surfaces for the following applications:

- athletics, track and field;
- tennis;
- multi-sports.

The European Standard has two parts. The first describes the requirements for the testing of products in the laboratory to ensure they are capable of providing the required levels of sports performance and player/surface interaction required for their intended use and that they are manufactured from materials of acceptable quality. The second section describes the requirements for installed surfaces to ensure that the sports performance and player/surface interaction properties are suitable for the intended use.

When independent third party testing of synthetic sports surfaces is required to assess compliance with this standard, it is recommended the laboratory is certified to EN ISO/IEC 17025 for the relevant test methods specified in this standard.

NOTE 1 Examples of types of surface and their fields of application are given in Annex A.

NOTE 2 'Multi-sports' will be defined by appropriate national provisions.

NOTE 3 Minimum requirements for the thickness of the synthetic sports surface are specified which means that this European Standard is not applicable to certain coatings used for sports surfaces.

This European Standard is not designed to cover the performance requirements of top-level athletics facilities; these should follow the requirements of the International Association of Athletics Federations (IAAF).

NOTE 4 This European Standard does not include requirements for synthetic turf surfaces; these are specified in EN 15330-1.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

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

EN 12235, *Surfaces for sports areas — Determination of vertical ball behaviour*

EN 12616, *Surfaces for sports areas — Determination of water infiltration rate*

EN 13036-4, *Road and airfield surface characteristics — Test methods — Part 4: Method for measurement of slip/skid resistance of a surface: The pendulum test*

EN 13036-7, *Road and airfield surface characteristics — Test methods — Part 7: Irregularity measurement of pavement courses : the straightedge test*

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