

DIN 18035-7



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**Sports grounds –
 Part 7: Synthetic turf areas,
 English translation of DIN 18035-7:2019-12**

Sportplätze –
 Teil 7: Kunststoffrasensysteme,
 Englische Übersetzung von DIN 18035-7:2019-12

Terrains de sports –
 Partie 7: Revêtements de gazon synthétique,
 Traduction anglaise de DIN 18035-7:2019-12

Document comprises 43 pages

Translation by DIN-Sprachendienst.

In case of doubt, the German-language original shall be considered authoritative.

A comma is used as the decimal marker.

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Foreword

This document has been prepared by Working Committee NA 005-01-22 AA “Synthetic surfaces (national mirror committee for CEN/TC 217/WG 6 and WG 11)” of *DIN-Normenausschuss Bauwesen* (DIN Standards Committee Building and Civil Engineering).

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

DIN 18035 consists of the following parts, under the general title *Sports grounds*:

- *Part 1: Outdoor play and athletics areas — Planning and dimensions*
- *Part 2: Irrigation*
- *Part 3: Drainage*
- *Part 4: Sports turf areas*
- *Part 5: Tamped areas*
- *Part 6: Synthetic surfaces*
- *Part 7: Synthetic turf areas*

Amendments

This standard differs from DIN 18035-7:2014-10 as follows:

- a) the levelling layer has been deleted;
- b) the unbound supporting layer is to be two-layered;
- c) the shockpad on an unbound levelling layer has been deleted;
- d) the bound resilient supporting layer has been attributed to the bound supporting layer;
- e) a test method for the wear resistance of elastic particulate fill has been included;
- f) the standard has been editorially revised and brought in line with the current rules of presentation.

Previous editions

DIN 18035-7: 1993-02, 2014-10
DIN V 18035-7: 2002-06
DIN SPEC 18035-7: 2011-10

1 Scope

This standard applies to synthetic turf surfacing systems with filled or unfilled carpet pile, for outdoor use.

It contains supplementary specifications that do not contradict DIN EN 15330-1.

This standard contains requirements for the individual layers beneath the synthetic turf, its fillers and environmental compatibility.

NOTE A synthetic turf system allows the use of many different sports. These include, above all, football, hockey, American football and tennis, both for training purposes and actual matches and tournaments, but also school sports and other kinds of games.

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.

DIN 18035-3, *Sports grounds — Part 3: Drainage*

DIN 18035-5:2007-08, *Sports grounds — Part 5: Tamped areas*

DIN 18125-2, *Soil investigation and testing — Determination of density of soil — Part 2: Field tests*

DIN 18134, *Soil — Testing procedures and testing equipment — Plate load test*

DIN 18196, *Earthworks and foundations — Soil classification for civil engineering purposes*

DIN 18200, *Assessment of conformity for construction products — Factory production control, third-party monitoring and certification*

DIN 18202, *Tolerances in building construction — Buildings*

DIN 38405-24, *German standard methods for the examination of water, waste water and sludge — Anions (group D) — Photometric determination of chromium(VI) using 1,5-diphenylcarbonohydrazide (D 24)*

DIN 38414-17, *German standard methods for the examination of water, waste water and sludge — Sludge and sediments (group S) — Part 17: Determination of the organically bound halogens amenable to extraction (EOX) (S 17)*

DIN 51451, *Testing of petroleum products and related products — Analysis by infrared spectrometry — General working principles*

DIN 53019-1, *Viscometry — Measurement of viscosities and flow curves by means of rotational viscometers — Part 1: Principles and measuring geometry*

DIN 53504, *Testing of rubber — Determination of tensile strength at break, tensile stress at yield, elongation at break and stress values in a tensile test*

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

DIN EN 933-4, *Tests for geometrical properties of aggregates — Part 4: Determination of particle shape — Shape index*