

SVENSK STANDARD

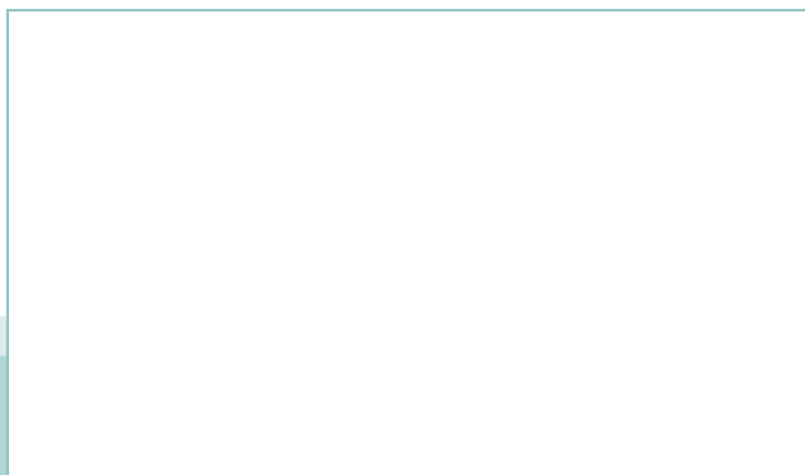
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Playground equipment and surfacing – Part 2: Additional specific safety requirements and test methods for swings



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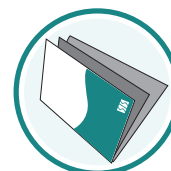
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Europastandarden EN 1176-2:2017 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 1176-2:2017.

Denna standard ersätter SS-EN 1176-2:2008, utgåva 2.

The European Standard EN 1176-2:2017 has the status of a Swedish Standard. This document contains the official version of EN 1176-2:2017.

This standard supersedes the Swedish Standard SS-EN 1176-2:2008, edition 2.

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EUROPEAN STANDARD

EN 1176-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2017

ICS 97.200.40

Supersedes EN 1176-2:2008

English Version

Playground equipment and surfacing - Part 2: Additional specific safety requirements and test methods for swings

Équipement et sols d'aires de jeux - Partie 2: Exigences de sécurité et méthodes d'essai complémentaires spécifiques aux balançoires

Spielplatzgeräte und Spielplatzböden - Teil 2: Zusätzliche besondere sicherheitstechnische Anforderungen und Prüfverfahren für Schaukeln

This European Standard was approved by CEN on 6 August 2016.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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SS-EN 1176-2:2017 (E)**European foreword**

This document (EN 1176-2:2017) has been prepared by Technical Committee CEN/TC 136 “Sports, playground and other recreational facilities and equipment”, the secretariat of which is held by DIN.

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 April 2018, and conflicting national standards shall be withdrawn at the latest by October 2018.

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.

This document supersedes EN 1176-2:2008.

The main changes are:

- a) amended definition of a swing;
- b) additional figure for an example of a swing with one rotational axis (see Figure 1);
- c) new figure on ground clearance (see Figure 7);
- d) new definition and requirements for group swing seats;
- e) improved recommendations for fences around swings;
- f) revised figure for free height of fall and surfacing requirements beneath a swing (see Figure 10);
- g) harmonization of B.4 and B.5 with the measuring device from the EN 1176 series.

This document is part of a series of standards dealing with playground equipment and surfacing which consists of:

- *Part 1: General safety requirements and test methods;*
- *Part 2: Additional specific safety requirements and test methods for swings;*
- *Part 3: Additional specific safety requirements and test methods for slides;*
- *Part 4: Additional specific safety requirements and test methods for cableways;*
- *Part 5: Additional specific safety requirements and test methods for carousels;*
- *Part 6: Additional specific safety requirements and test methods for rocking equipment;*
- *Part 7: Guidance on installation, inspection, maintenance and operation;*
- *Part 10: Additional specific safety requirements and test methods for fully enclosed play equipment;*
- *Part 11: Additional specific safety requirements and test methods for spatial network.*

This part of EN 1176 will be used in conjunction with parts EN 1176-1, EN 1176-7 and EN 1177.

For inflatable play equipment see EN 14960, *Inflatable play equipment — Safety requirements and test methods*.

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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

SS-EN 1176-2:2017 (E)

1 Scope

This European Standard specifies additional safety requirements for swings intended for permanent installation for use by children. Where the main play function is not swinging, the relevant requirements in this part of EN 1176 may be used, as appropriate.

NOTE Recommendations on the design and siting of swings are given in Annex A.

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 1176-1:2017, *Playground equipment and surfacing — Part 1: General safety requirements and test methods*

EN ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025)*

ISO 6487, *Road vehicles — Measurement techniques in impact tests — Instrumentation*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1176-1 and the following apply.

NOTE In order not to confine the application of this European Standard to those items of equipment currently in use and to allow freedom of design for the manufacture of new equipment, only the fundamental forms of equipment and motion are defined.

3.1 swing

moving equipment where the weight of the user is supported below a pivot or universal joint, where the pivot or universal joint is more than 1,3 m above the ground

3.2 swing with one rotational axis (Type 1)

seat that is flexibly suspended individually from a load bearing cross beam that can swing to and fro in an arc at right angles to the cross beam

Note 1 to entry: See Figure 1.

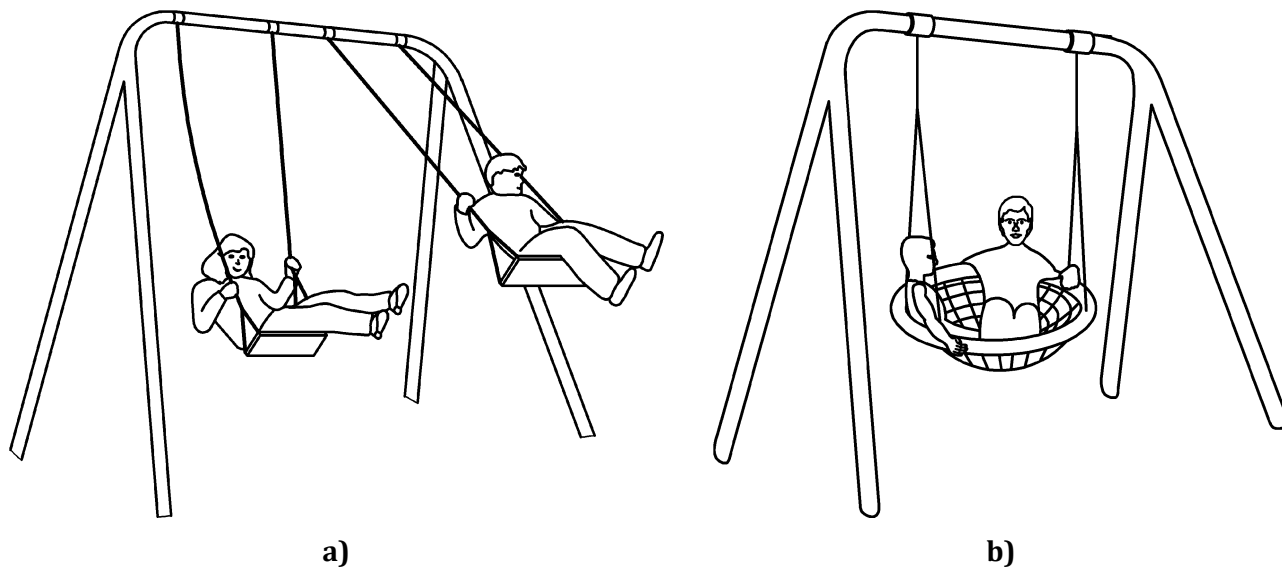


Figure 1 — Examples of a swing with one rotational axis (Type 1)

3.3

swing with several rotational axes (Type 2)

seat suspended from one or more load bearing cross beams, supported in such a way that it can move at right angles or longitudinally to the cross beams in as horizontal position as practicable

Note 1 to entry: See Figure 2.



Figure 2 — Example of a swing with several rotational axes (Type 2)

3.4

single point swing (Type 3)

seat or platform with cables or chains that meet at one fixing point so that the swing can move in all directions

Note 1 to entry: See Figure 3.