



SLOVENSKI STANDARD

SIST EN 1176-7:2008

01-oktober-2008

Nadomešča:
SIST EN 1176-7:1998

Oprema in podloge otroških igrišč - 7. del: Navodila za vgradnjo, nadzor, vzdrževanje in delovanje

Playground equipment and surfacing - Part 7: Guidance on installation, inspection, maintenance and operation

Spielplatzgeräte und Spielplatzböden - Teil 7: Anleitung für Installation, Inspektion, Wartung und Betrieb

Equipements et sols d'aires de jeux - Partie 7: Guide d'installation, contrôle, maintenance et utilisation

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Ta slovenski standard je istoveten z: EN 1176-7:2008

ICS:

97.200.40 Igrišča Playgrounds

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1176-7

May 2008

ICS 97.200.40

Supersedes EN 1176-7:1997

English Version

Playground equipment and surfacing - Part 7: Guidance on installation, inspection, maintenance and operation

Équipements et sols d'aires de jeux - Partie 7 : Guide d'installation, contrôle, maintenance et utilisation

Spielplatzgeräte und Spielplatzböden - Teil 7: Anleitung für Installation, Inspektion, Wartung und Betrieb

This European Standard was approved by CEN on 25 April 2008.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Foreword

This document (EN 1176-7:2008) 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 November 2008, and conflicting national standards shall be withdrawn at the latest by May 2009.

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 1176-7:1997.

This European Standard consists of a number of parts as follows:

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

EN 1176-2, *Playground equipment and surfacing — Part 2: Additional specific safety requirements and test methods for swings*

EN 1176-3, *Playground equipment and surfacing — Part 3: Additional specific safety requirements and test methods for slides*

EN 1176-4, *Playground equipment and surfacing — Part 4: Additional specific safety requirements and test methods for cableways*

EN 1176-5, *Playground equipment and surfacing — Part 5: Additional specific safety requirements and test methods for carousels*

EN 1176-6, *Playground equipment and surfacing — Part 6: Additional specific safety requirements and test methods for rocking equipment*

EN 1176-7, *Playground equipment and surfacing — Part 7: Guidance on installation, inspection, maintenance and operation*

EN 1176-10, *Playground equipment and surfacing — Part 10: Additional specific safety requirements and test methods for fully enclosed play equipment*

EN 1176-11, *Playground equipment and surfacing — Part 11: Additional specific safety requirements and test methods for spatial network*

This part of EN 1176 should not be used in isolation, but in conjunction with EN 1176-1 and EN 1177.

For inflatable play equipment see

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

For guidance on the maintenance of fully enclosed play equipment, see EN 1176-10.

The principal change from the previous edition of EN 1176-7 is that the guidance given in this part of EN 1176 has been updated in the light of experience of use of EN 1176-7:1997, for example by referring to other parts of EN 1176 when carrying out an inspection.

EN 1176-7:2008 (E)

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This document gives guidance on the installation, inspection, maintenance and operation of playground equipment, including ancillary items, e.g. gates, fences, and surfacing.

2 Normative references

The following referenced documents are indispensable for the application 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 1176-1:2008, *Playground equipment and surfacing — Part 1: General safety requirements and test methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1176-1:2008 apply.

4 General

4.1 If equipment is not safe, access by the public, including children, should be prevented.

NOTE Examples of situations where the equipment is not safe are as follows:

- safe installation of equipment is not complete;
- impact attenuating surface is not yet installed;
- where maintenance cannot ensure a continuing level of safety.

4.2 A book, inspection and servicing sheets or computer records should be kept by the owner/operator in charge of the equipment maintenance and inspection.

5 Installation

5.1 Equipment should be installed in a safe way, also to meet, for example, national or local building and safety regulations.

5.2 Equipment should be installed in accordance with the manufacturer's instructions (see EN 1176-1:2008, Clause 6).

5.3 On completion of a new playground, a post-installation inspection should be carried out by a competent person to assess compliance with the relevant part(s) of EN 1176.

6 Inspection and maintenance

6.1 Equipment and its components should be inspected and maintained in accordance with the manufacturer's instructions at a frequency not less than that given by the manufacturer (see EN 1176-1:2008, Clause 6).

6.2 Equipment and its components should be inspected as follows.

EN 1176-7:2008 (E)**a) Routine visual inspection**

Routine visual inspection enables the identification of obvious hazards that can result from vandalism, use or weather conditions, e.g. hazards such as broken parts or broken bottles.

For playgrounds subject to heavy use or vandalism, daily inspection of this type can be necessary.

b) Operational inspection

The operational inspection is a more detailed inspection to check the operation and stability of the equipment, especially for any wear. This inspection should be every 1 to 3 months, or as indicated by the manufacturer's instructions.

Special attention should be given to 'sealed-for-life' parts.

NOTE 1 Examples of visual and operational inspection points are cleanliness, equipment ground clearances, ground surface finishes, exposed foundations, sharp edges, missing parts, excessive wear (of moving parts) and structural integrity.

c) Annual main inspection

The annual main inspection is carried out to establish the overall level of safety of equipment, foundations and surfaces, e.g. compliance with the relevant part(s) of EN 1176, including any changes made as a result of the assessment of safety measures (see 8.2.1), effects of weather, presence of rotting or corrosion, and any change in the level of safety of the equipment as a result of repairs made, or of added or replaced components.

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Special attention should be given to 'sealed-for-life' parts.

NOTE 2 The annual main inspection may involve excavation or dismantling of certain parts. Additional measures might be necessary to detect other possible deterioration of the structure.

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The equipment should be inspected by competent persons in strict accordance, at least, with the manufacturer's instructions.

NOTE 3 The level of competence required will vary with the task.

6.3 Specific recommendations**6.3.1 Reinforced materials**

Parts which comprise glass fibre reinforced plastics (GRP) should be replaced or repaired once the glass fibres become visible due to wear or damage. This particularly applies to slides.

6.3.2 One post equipment

When play equipment relies on one post for its stability, special attention should be paid to maintenance, e.g. by monitoring degradation and, if necessary, decommissioning the item before the end of its operating life.

7 Inspection schedule

7.1 To prevent accidents, the owner or operator should ensure that an appropriate inspection schedule is established and maintained for each playground. This should take into account local conditions and the manufacturer's instructions that can affect the necessary inspection frequency. The schedule should list the components to be inspected at the various inspections and the methods of inspection, in accordance with 6.2.

7.2 If serious defects that might put safety at risk are discovered during inspection, these should be corrected without delay. If this is not possible, the equipment should be secured against use, e.g. immobilization or removal.

Where a piece of equipment is to be removed from the site, for example for maintenance, any anchorages or foundations left in the ground should be removed or safeguarded and the site made safe.

8 Operation

8.1 General recommendations

8.1.1 In all steps in the design, installation, inspection, maintenance and operation of the play area, the operator or owner should take into account the manufacturer's information, e.g. pre-information/catalogue, installation instructions and maintenance instructions, together with the requirements of the relevant part(s) of EN 1176 and any other appropriate information.

8.1.2 The operator should set up an appropriate system for the safety management of the playground.

NOTE For the purposes of this European Standard the term 'safety management' is the organization established by the operator of the playground to assess, maintain and, if necessary, improve the safety of the playground as a whole, including equipment and surfaces.

8.2 Specific recommendations

8.2.1 Assessment of safety measures

The operator of a playground should periodically, at least once a year, systematically assess the effectiveness of all safety measures used (including the recommendations given in this European Standard and any published amendments) and alter them if it is found necessary on the basis of experience, or if circumstances have changed.

8.2.2 Personnel

Personnel performing tasks as a part of safety management, such as inspection, repair and maintenance, should be competent. The level of competence will vary with the task and training might be necessary. The personnel should have adequate information about their tasks and adequate information about their responsibilities and authority. Only qualified personnel should carry out any work, such as welding parts of a structure, that is deemed to affect the safety of the equipment.

8.2.3 Documentation

Records should be kept of all actions taken as part of safety management.

The documents relating to a playground should include:

- a) the certificate of inspection and testing, if applicable;
- b) inspection and maintenance instructions;
- c) operating instructions, if applicable;
- d) operator's records, all inspection and maintenance records, e.g. log book; and
- e) specific design and tender documents.