



SLOVENSKI STANDARD

SIST EN 1176-7:1998

01-september-1998

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

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

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

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

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ICS:

97.200.40 Igrišča Playgrounds

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EUROPEAN STANDARD

EN 1176-7

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 1997

ICS 97.190; 97.200.40

Descriptors: playground, recreation facilities, toys, communal equipment, safety requirements, accident prevention, installation, inspection, maintenance, utilization

English version

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

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

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

This European Standard was approved by CEN on 1997-08-25. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 136 'Sports, playground and other recreational equipment', the secretariat of which is held by DIN.

BT has decided to package EN 1176-1, EN 1176-7 and EN 1177. In accordance with the CEN/CENELEC Internal Regulations, the latest date by which national standards conflicting with this European Standard have to be withdrawn is 1998-12-31.

This standard consists of a number of parts as follows:

prEN 1176-1	Playground equipment Part 1: General safety requirements and test methods
prEN 1176-2	Playground equipment Part 2: Additional specific safety requirements and test methods for swings
prEN 1176-3	Playground equipment Part 3: Additional specific safety requirements and test methods for slides
prEN 1176-4	Playground equipment Part 4: Additional specific safety requirements and test methods for runways
prEN 1176-5	Playground equipment Part 5: Additional specific safety requirements and test methods for carousels
prEN 1176-6	Playground equipment Part 6: Additional specific safety requirements and test methods for rocking equipment
EN 1176-7	Playground equipment - Part 7: Guidance on installation, inspection, maintenance and operation.

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and should be read in conjunction with prEN 1176-1 to 6 and EN 1177 "Impact absorbing playground surfacing - Safety requirements and test methods".

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 1998, and conflicting national standards shall be withdrawn at the latest by December 1998.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This Part of EN 1176 gives guidance for the installation, inspection, maintenance and operation of playground equipment.

NOTE: For the purpose of this standard, the term 'equipment' includes surfacing.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

prEN 1176-1 : 1996	Playground equipment - Part 1: General safety requirements and test methods
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3 Definitions

For the purposes of this part of EN 1176, the definitions given in prEN 1176-1 apply.

4 General

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

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

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

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4.2 A book or inspection and servicing sheets 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.

5.2 Equipment should be installed according to the manufacturer's instructions (see clause 6 of prEN 1176-1: 1996 and EN 1177).

6 Inspection and maintenance

6.1 Equipment and its components should be inspected and maintained according to the manufacturer's instructions at a frequency not less than that given by the manufacturer (see clause 6 of prEN 1176-1 : 1996).

6.2 Equipment and its components should be inspected as follows:

a) Routine visual inspection

The routine visual inspection enables the identification of obvious hazards that can result from vandalism, use or weather conditions, e.g. the hazards can take the form of broken parts or broken bottles.

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

NOTE: 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.

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 should be carried out every 1 to 3 months, or as indicated by the manufacturer's instructions.

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

c) Annual main inspection

The annual main inspection is done to establish, at intervals not exceeding 12 months, the overall level of safety of equipment, foundations and surfaces, e.g. effects of weather, evidence 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.

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

NOTE 1: The annual main inspection can require excavation or dismantling of certain parts.

This inspection of the equipment should be carried out by competent persons in strict accordance with the manufacturer's instructions.

NOTE 2: The level of competence required will vary with the task.

7 Inspection schedule

7.1 In order 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 carrying out the inspections, in accordance with 6.2.

7.2 If serious defects that 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.

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8 Operation

8.1 General recommendations

8.1.1 The operator or owner should take into account in all steps of design, installation, inspection, maintenance and operation, the manufacturer's information e.g. pre-information/catalogue, installation instructions and maintenance instructions.

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

NOTE: For the purposes of this standard the term 'safety management' is defined as the organization set up by the operator of the playground to assess, maintain and, if necessary to improve the safety of the playground as a whole, including the equipment and the surfaces.

8.2 Specific recommendations

8.2.1 Assessment of safety measures

The operator of a playground should periodically, at least once a year, and systematically assess the effectiveness of all the safety measures used (including the recommendations given in this standard) 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 can be necessary. The personnel should have adequate information about their tasks and adequate information about their responsibilities and authority.

Particular work, such as welding parts of a structure, that is deemed to affect the safety of the equipment should only be carried out by qualified personnel.

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8.2.3 Documentation

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