



# SLOVENSKI STANDARD

## SIST EN 1176-3:2000

01-september-2000

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Playground equipment - Part 3: Additional specific safety requirements and test methods  
for slides

Spielplatzgeräte - Teil 3: Zusätzliche besondere sicherheitstechnische Anforderungen  
und Prüfverfahren für Rutschen

Equipements d'aires de jeux - Partie 3: Exigences de sécurité et méthodes d'essai  
complémentaires spécifiques aux toboggans

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Ta slovenski standard je istoveten z: EN 1176-3:1998

### ICS:

97.200.40 Q!ž æ Playgrounds

**SIST EN 1176-3:2000**

**en**

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English version

## Playground equipment - Part 3: Additional specific safety requirements and test methods for slides

Equipements d'aires de jeux - Partie 3: Exigences de sécurité et méthodes d'essai complémentaires spécifiques aux toboggans

Spielplatzgeräte - Teil 3: Zusätzliche besondere sicherheitstechnische Anforderungen und Prüfverfahren für Rutschen

This European Standard was approved by CEN on 22 July 1998.

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.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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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.

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 February 1999, and conflicting national standards shall be withdrawn at the latest by February 1999.

This standard consists of a number of parts as follows:

EN 1176-1	Playground equipment - Part 1: General safety requirements and test methods
EN 1176-2	Playground equipment - Part 2: Additional specific safety requirements and test methods for swings
EN 1176-3	Playground equipment - Part 3: Additional specific safety requirements and test methods for slides
EN 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
EN 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.

This standard should not be used in isolation, but in conjunction with EN 1176-1 and EN 1176-7 and EN 1177 - Impact absorbing playground surfacing - Safety requirements and test methods. It amends and supplements EN 1176-1 and EN 1177.

This standard is intended to reduce the risks that may occur through normal and foreseeable use of slides, without restricting their recreational appeal.

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 standard specifies additional safety requirements for slides intended for permanent installation for use by children.

This standard is not applicable to waterslides, rollerways or slide installations where auxiliary equipment such as mats or sledges are used.

## 2 Normative references

This European Standard incorporates by dated or undated references, 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:

EN 1176-1:1998      Playground equipment : Part 1 General safety requirements and test methods.

## 3 Definitions

For the purposes of this standard, the definitions given in EN 1176-1 apply, together with the following:

**3.1 slide:** Structure with inclined surface(s) on which the user slides in a defined track (see figure 1).

NOTE: Inclined planes, designed primarily for other purposes, such as roofs, do not constitute slides.

**3.2 wave slide:** Slide with one or more variation(s) in the slope of its sliding section.

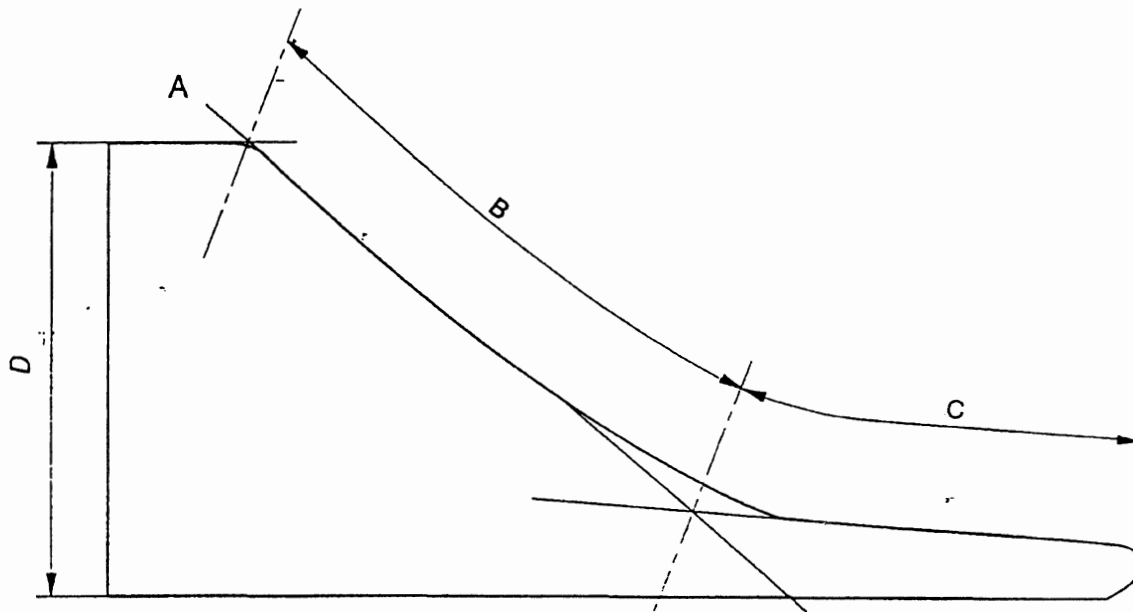
**3.3 embankment slide:** Slide in which the majority of the sliding section follows the contour of the land.

NOTE: Access to the starting section is usually direct from the mound or via an access ladder or stairs.

**3.4 attachment slide:** Slide for which access to the starting section is possible only by passing via other equipment or parts of equipment.

NOTE: Such equipment includes climbing nets, bridges, platforms, inclined planes, other climbing devices.

**3.5 helical slide; curved slide:** Slide where the sliding section follows spirals or curves.



- A: Starting section
- B: Sliding section
- C: Run-out section
- B + C: Slide length
- D: Height of slide

**Figure 1: Diagrammatic representation of a slide**

**3.6 free-standing slide:** Slide which is separate from any other piece of equipment with its own means of access from the ground directly to the starting section.

**3.7 tunnel slide:** Slide where the sliding section has an enclosed cross section.

**3.8 mixed tunnel slide:** Slide for which only the upper section of the sliding section has an enclosed cross section.

**3.9 starting section:** Section on which the child is enabled to get into sliding position.

NOTE: The starting section can be a platform or an extension of a platform of playground equipment.



## 4 Safety requirements

### 4.1 General

Slides shall comply with the requirements of EN 1176-1 except in so far as they are modified by this standard.

### 4.2 Access

Access to the starting section shall be by means of an access ladder, stairs, climbing section or device.

NOTE: In the case of embankment slides, access to the starting section may be gained directly from the mound.

For free standing slides, the maximum vertical height that the first stairs can reach without a change in direction or offset by a minimum width of the means of access shall be 2,5 m.

### 4.3 Starting section

#### 4.3.1 Length and angle

Each slide shall have a starting section of at least 350 mm length. The starting section shall have a downward slope tolerance of 0 ° to 5 ° in the direction of the slide length, the measurement being made at the centreline of the starting section.

NOTE: For attachment slides the platform may be used as a starting section.

#### 4.3.2 Barriers

If the starting section is more than 400 mm in length, it shall comply with the requirements for platforms as specified in EN 1176-1 and the gap in the barriers shall be the same as the width of the sliding section.

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#### 4.3.3 Width

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The width of the starting section shall be equal to that of the sliding section. The starting section shall be designed so that it is aligned with the direction of the initial sliding movement.

#### 4.3.4 Lateral protection (sides)

The top edge of the lateral protections shall be continuous and shall extend from the start of the starting section to the top edge of the retaining sides of the sliding section.



When the free height of fall of the starting section of a slide exceeds 1000 mm the sides of the starting section shall lie in the extension of the retaining sides of the sliding section.

For attachment slides the sides shall have a height of at least 500 mm at some point (see figure 2). For free-standing slides the sides shall have a height of at least that required for platforms at one point.

Any variations in the angle of inclination of the top of the lateral protection in the sliding direction shall be made with a radius of at least 500 mm at some point.

#### **4.3.5 Access (rails)**

For all attachment slides with a fall height greater than 1,0 m a rail across the access opening shall be provided (see figure 2a)). The rail shall be positioned between the platform guard rail or barrier and the start of the sliding section.

The height of the rail shall be between 700 mm and 900 mm.

For attachment slides with a starting section or barrier beyond the edge of the platform, the area of the starting section between the rail and the platform shall comply with the same requirements as platforms.

NOTE: Such requirements include the height of guard rail or barrier.

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