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BSI Standards Publication

## Playground equipment and surfacing

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Part 4: Additional specific safety requirements and test methods for cableways

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## National foreword

This British Standard is the UK implementation of EN 1176-4:2017, incorporating corrigendum January 2019. It supersedes BS EN 1176-4:2008, which is withdrawn.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags. Text altered by CEN corrigendum January 2019 is indicated in the text by AC AC.

The UK participation in its preparation was entrusted to Technical Committee SW/65, Children's playground equipment.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Compliance with a British Standard cannot confer immunity from legal obligations.**

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### Amendments/corrigenda issued since publication

Date	Text affected
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English Version

## Playground equipment and surfacing - Part 4: Additional specific safety requirements and test methods for cableways

Équipements et sols d'aires de jeux - Partie  
4: Exigences de sécurité et méthodes d'essai  
complémentaires spécifiques aux téléphériques

Spielplatzgeräte und Spielplatzböden - Teil 4:  
Zusätzliche besondere sicherheitstechnische  
Anforderungen und Prüfverfahren für Seilbahnen

This European Standard was approved by CEN on 2 July 2017.

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.

CEN members are the national standards bodies of 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 United Kingdom.



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## European foreword

This document (EN 1176-4:2017+AC:2019) 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 includes Corrigendum 1 issued by CEN on 9 January 2019.

This document supersedes AC EN 1176-4:2017 AC.

This document includes the corrigendum 1 which corrects the 5<sup>th</sup> paragraph in the European foreword and the 1<sup>st</sup> sentence in the scope.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags AC AC.

AC The principal changes from the previous edition of this part of EN 1176 are as follows:

- a) finger test for traveler was added;
- b) ground clearance requirement for seating type was changed;
- c) test weight was changed. AC

EN 1176, *Playground equipment and surfacing*, consists of the following parts:

- *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 should not be used in isolation, but in conjunction with 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.

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## 1 Scope

**AC** This European Standard is applicable to cableways whereby children travel along a cable by the use of gravity. **AC** This standard specifies additional safety requirements for cableways intended for permanent installation for use by children.

## 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 1176-2:2017, *Playground equipment and surfacing - Part 2: Additional specific safety requirements and test methods for swings*

EN 1176-6:2017, *Playground equipment and surfacing - Part 6: Additional specific safety requirements and test methods for rocking equipment*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1 cableway

item of children's playground equipment whereby children can travel on or along a cable under the force of gravity

NOTE See [Figure 1](#).

### 3.2 hanging type cableway

cableway equipped with a suspension assembly which includes a grip for the user

### 3.3 seating type cableway

cableway equipped with a suspension assembly which includes a seat

### 3.4 starting point

area in which the user can reach the grip or seat and set the equipment in motion

### 3.5 area of travel

area in which the user can travel freely

### 3.6 terminus

area furthest away from the starting point that the user can reach by travelling across the area of travel

### 3.7 traveller

moving part that, by influence of gravity, moves the user along the cable

NOTE See [Figure 1](#).