

AS 4685.4:2021



STANDARDS
Australia

Playground equipment and surfacing

Part 4: Additional safety requirements and test methods for cableways (EN 1176-4:2017, MOD)

This Australian Standard is the adoption of EN 1176-4:2017 with national modifications as set out in the Appendix ZZ to take account of Australian conditions with the permission of the European Committee for Standardization — CEN, Rue de la Science 23, B — 1040 Brussels, Belgium.



AS 4685.4:2021

This Australian Standard® was prepared by CS-005, Playground Equipment. It was approved on behalf of the Council of Standards Australia on 21 January 2021.

This Standard was published on 29 January 2021.

The following are represented on Committee CS-005:

- Association of Rotational Moulders Australasia
- Australian Industry Group
- Australian Institute of Landscape Architects
- Children's Health Queensland Hospital and Health Service
- Consumers' Federation of Australia
- Early Childhood Australia
- Engineers Australia
- Institute of Public Works Engineering Australasia
- Kidsafe Australia
- National Association of Testing Authorities Australia
- Occupational Therapy Australia
- Play Australia
- Scouts Australia
- Sports and Play Industry Association
- University of Sydney

This Standard was issued in draft form for comment as DR AS 4685.4:2019.

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ISBN 978 1 76113 186 8

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Originates as part of AS 1924.1—1976 and AS 1924.2—1981.
Revised, amalgamated and redesignated as AS 4685.4—2004.
Previous edition AS 4685.4:2014.
Third edition 2021.

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Preface

This Standard was prepared by the Standards Australia Committee CS-005, Playground Equipment, to supersede AS 4685.4:2014, *Playground equipment and surfacing, Part 4: Additional specific safety requirements and test methods for cableways (EN 1176-4:2008, MOD)*.

If a Standard is referenced in legislation, the legislative instrument or regulation specifies the date on which the Standard or Amendment comes into effect. Regulatory Authorities have indicated 12 months as an appropriate transition period from the date of publication for the application of this Standard. Refer to the relevant regulatory authority for further information.

The objective of this document is to specify additional safety requirements for cableways intended for permanent installation for use by children.

This document is applicable to cableways whereby children travel on or along a cable by the use of gravity.

This document is not applicable to cableways (flying foxes) with a maximum speed exceeding 7 m/s (for guidance refer to AS 2316.2) or with free height of fall exceeding those specified in this document.

This document is an adoption with national modifications, and has been reproduced from, EN 1176-4:2017, *Playground equipment and surfacing — Part 4: Additional specific safety requirements and test methods for cableways*. The modifications are additional requirements and are set out in [Appendix ZZ](#), which has been added at the end of the source text.

[Appendix ZZ](#) lists the variations to EN 1176-4:2017 for the application of this document in Australia.

As this document has been reproduced from an International Standard, the following applies:

- (a) In the source text “this European Standard” should read “this document”.
- (b) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

NOTES

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European foreword

This document (EN 1176-4:2017) 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 1176-4:2008.

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

- a) revised requirements for the different types of grips and seats;
- b) revised requirements for seated and hanging types of equipment;
- c) test methods have been improved in the light of experience.

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 1176-10.

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.

1 Scope

This European Standard is applicable to cableways whereby children travel on or along a cable by the use of gravity. 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 1 to entry: 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 1 to entry: See Figure 1.