

Australian/New Zealand Standard™

Wheelchairs

Part 2: Determination of dynamic stability of electric wheelchairs



AS/NZS 3696.2:2008

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ME-067, Mobility Appliances for People with Disabilities. It was approved on behalf of the Council of Standards Australia on 26 February 2008 and on behalf of the Council of Standards New Zealand on 17 March 2008. This Standard was published on 30 May 2008.

The following are represented on Committee ME-067:

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Part 2: Determination of dynamic stability of electric wheelchairs

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-067, Mobility Appliances for People with Disabilities, to supersede AS/NZS 3696.2:1992, *Wheelchairs, Part 2: Determination of dynamic stability of electric wheelchairs*.

This Standard is identical with, and has been reproduced from ISO 7176-2:2001, *Wheelchairs—Part 2: Determination of dynamic stability of electric wheelchairs*.

The objective of this Standard is to provide a method for determining the dynamic stability of electrically powered wheelchairs, for the use of manufacturers, testing authorities and purchasers.

The objective of this revision is to adopt the latest edition of the ISO Standard, which contains substantive changes to the presentation of the method.

As this Standard is reproduced from an international standard, the following applies:

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover.
- (b) In the source text ‘this part of ISO 7176’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point substitute for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian/New Zealand Standard, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
ISO		AS/NZS	
6440	Wheelchairs—Nomenclature, terms and definition	—	
7176	Wheelchairs	3696	Wheelchairs
7176-11	Part 11: Test dummies	3696.11	Part 11: Test dummies
7176-13	Part 13: Determination of coefficient of friction of test surfaces	3696.13	Part 13: Determination of coefficient of friction of test surfaces
7176-15	Part 15: Requirements for information disclosure documentation and labelling	—	
7176-22	Part 22: Set-up procedures	3696.22	Part 22: Set-up procedures

The terms ‘normative’ and ‘informative’ are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

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AUSTRALIAN/NEW ZEALAND STANDARD

Wheelchairs**Part 2:****Determination of dynamic stability of electric wheelchairs****1 Scope**

This part of ISO 7176 specifies test methods for determining the dynamic stability of electrically powered wheelchairs.

This part of ISO 7176 is applicable to electrically powered wheelchairs including scooters with a maximum nominal speed not exceeding 15 km/h, intended to carry one person.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 7176. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 7176 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 6440:1985, *Wheelchairs — Nomenclature, terms and definitions*.

ISO 7176-11:1992, *Wheelchairs — Part 11: Test dummies*.

ISO 7176-13:1989, *Wheelchairs — Part 13: Determination of coefficient of friction of test surfaces*.

ISO 7176-15:1996, *Wheelchairs — Part 15: Requirements for information disclosure, documentation and labelling*.

ISO 7176-22:2000, *Wheelchairs — Part 22: Set-up procedures*.

3 Terms and definitions

For the purposes of this part of ISO 7176, the terms and definitions given in ISO 6440 and the following apply.

3.1**antitip device**

device which limits the extent of tipping of a wheelchair

NOTE 1 These may include fixed or removable wheels, posts, skids or footrests. They may operate in forwards, rearwards or lateral directions of instability.

NOTE 2 Auxiliary wheels on which, in certain conditions, the wheelchair is intended to run are not included.

3.2**auxiliary wheels**

integral wheels onto which the manufacturer intends the wheelchair to be capable of being tipped and run