

Australian/New Zealand Standard™

Wheelchairs

Part 3: Determination of effectiveness of brakes



AS/NZS 3696.3:2008

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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Consumers' Federation of Australia
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Flinders University of South Australia
Furntech
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Part 3: Determination of effectiveness of brakes

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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 3696.3:1990, *Wheelchairs, Part 3: Determination of efficiency of brakes*.

This Standard is identical with, and has been reproduced from ISO 7176-3:2003, *Wheelchairs—Part 3: Determination of effectiveness of brakes*.

The objective of this Standard is to provide a suitable test for the determination of the effectiveness of brakes on manual and electrically powered wheelchairs.

The objective of this revision is to adopt the latest edition of the ISO Standard, which contains substantive changes to the presentation of the test 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 substitutes for a comma when referring to a decimal marker.

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

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
ISO		AS/NZS	
6440	Wheelchairs—Nomenclature, terms and definitions	—	
7176	Wheelchairs	3696	Wheelchairs
7176-6	Part 6: Determination of maximum speed, acceleration and deceleration of electric wheelchairs	3696.6	Part 6: Determination of maximum speed acceleration and deceleration of electric 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’ have been used in this Standard 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 3:

Determination of effectiveness of brakes

1 Scope

This part of ISO 7176 specifies test methods for the measurement of the effectiveness of brakes of manual wheelchairs and electrically powered wheelchairs, including scooters, intended to carry one person, with a maximum speed not exceeding 15 km/h. It also specifies disclosure requirements for the manufacturer.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 6440, *Wheelchairs — Nomenclature, terms and definitions*

ISO 7176-6, *Wheelchairs — Part 6: Determination of maximum speed, acceleration and deceleration of electric wheelchairs*

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

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

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

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

3 Terms and definitions

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

3.1

running brake

means to stop or to slow the wheelchair

3.2

control device

means by which the user directs an electrically powered wheelchair to move at the desired speed and/or in the desired direction of travel

3.3

parking brake

means to keep the wheelchair stationary