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Australian/New Zealand Standard™

# Wheelchairs

# Part 28: Requirements and test methods for stair-climbing devices

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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ME-067, Assistive Technology Products for Persons with Disability. It was approved on behalf of the Council of Standards Australia on 23 July 2013 and on behalf of the Council of Standards New Zealand on 5 August 2013.
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The following are represented on Committee ME-067:

Assistive Technology Suppliers Australia
Association of Consultants in Access Australia
Australian Rehabilitation on Assistive Technology
Bus and Coach Association of New Zealand
Consumer Federation Australia
Department of Family and Communities (SA)
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*This Standard was issued in draft form for comment as DR AS/NZS ISO 7176.28.*

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# PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-067, Assistive Technology Products for Persons with Disability.

The objective of this Standard is to specify requirements and test methods for electrically powered stair-climbing devices. It is applicable to stair-climbing chairs and stair-climbing wheelchair carriers where the stair-climbing device climbs backwards up the stairs, with the occupant facing downstairs, and climbs forwards down the stairs with the occupant also facing downstairs. It is also applicable to stair-climbing devices which are intended for the transport of adults and those intended for the transport of children. It is not applicable to stair-climbing devices that are intended to be operated by children as operating occupants or assistants, or to manually powered stair-climbing devices.

This Standard is identical with, and has been reproduced from ISO 7176-28:2012, *Wheelchairs*, Part 28: *Requirements and test methods for stair-climbing devices*.

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

(a) In the source text 'this part of ISO 7176' should read 'this Australian/New Zealand Standard'.

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| *Reference to International Standard* | | *Australian/New Zealand Standard* | |
|---|---|---|---|
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| 7176 | Wheelchairs | 3696 | Wheelchairs |
| 7176-1 | Part 1: Determination of static stability | 3696.1 | Part 1: Determination of static stability |
| 7176-2 | Part 2: Determination of dynamic stability of electric wheelchairs | 3696.2 | Part 2: Determination of dynamic stability of electric wheelchairs |
| 7176-3 | Part 3: Determination of effectiveness of brakes | 3696.3 | Part 3: Determination of effectiveness of brakes |
| 7176-8 | Part 8: Requirements and test methods for static, impact and fatigue strengths | 3696.8 | Part 8: Requirements and test methods for static, impact and fatigue strengths |
| | | AS | |
| 7176-13 | Part 13: Determination of coefficient of friction of test surfaces | 3696.13 | Part 13: Determination of coefficient of friction of test surfaces |
| ISO | | AS/NZS ISO | |
| 7176-9 | Part 9: Climatic tests for electric wheelchairs | 7176.9 | Part 9: Climatic tests for electric wheelchairs |
| 7176-11 | Part 11: Test dummies | 7176.11 | Part 11: Test dummies |
| 7176-14 | Part 14: Power and control systems for electrically powered wheelchairs and scooters—Requirements and test methods | 7176.14 | Part 14: Power and control systems for electric wheelchairs and scooters—Requirements and test methods |
| 7176-26 | Part 26: Vocabulary | 7176.26 | Part 26: Vocabulary |
| | | AS/NZS | |
| 7176-19 | Part 19: Wheeled mobility devices for use as seats in motor vehicles | 3696.19 | Part 19: Mobility devices for use as seats in motor vehicles (ISO 7176-19:2008, MOD) |
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