

Australian/New Zealand Standard™

**Hoists for the transfer of disabled
persons—Requirements and test
methods**



AS/NZS ISO 10535:2011

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 6 December 2011 and on behalf of the Council of Standards New Zealand on 1 December 2011. This Standard was published on 20 December 2011.

The following are represented on Committee ME-067:

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Australian Rehabilitation and Assistive Technology Association
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This Standard was issued in draft form for comment as DR AS/NZS ISO 10535.

Australian/New Zealand Standard™

Hoists for the transfer of disabled persons—Requirements and test methods

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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 ISO 10535—2002, *Hoists for the transfer of disabled persons—Requirements and test methods*.

The objective of this Standard is to update AS ISO 10535 to harmonize with the latest ISO edition of that Standard. Safety and performance requirements of hoists to assist in the transfer of people are critical to minimize the risk of harm during activities when both the person being transferred and others are vulnerable to serious injury.

This Standard is identical with, and has been reproduced from ISO 10535:2006, *Hoists for the transfer of disabled persons—Requirements and test methods*.

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

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

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
IEC 60529	Degrees of protection provided by enclosures (IP Code)	AS 60529	Degrees of protection provided by enclosures (IP Code)
60601 60601-1	Medical electrical equipment Part 1: General requirements for basic safety and essential performance	AS/NZS 3200* 3200.1.0	Medical electrical equipment Part 1.0: General requirements for safety—Parent Standard
60601-1-2	Part 1-2: General requirements for basic safety and essential performance—Collateral standard: Electromagnetic compatibility—Requirements and tests	3200.1.2	Part 1.2: General requirements for safety—Collateral Standard: Electromagnetic compatibility—Requirements and tests
61000 61000-3-2	Electromagnetic compatibility (EMC) Part 3-2: Limits—Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	61000 61000.3.2	Electromagnetic compatibility (EMC) Part 3.2: Limits—Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) (IEC 61000-3-2, Ed.3.0 (2005) MOD)
61000-3-3	Part 3-3: Limits—Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	61000.3.3	Part 3.3: Limits—Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current (≤ 16 A per phase and not subject to conditional connection (IEC 61000-3-3, Ed. 1.2 (2005) MOD)

* At time of publication, AS/NZS 3200 reflects the 2nd Edition of ISO 60601. It is anticipated a future revision will mirror ISO 60601 3rd Edition and this (ISO 60601 3rd Edition) should be used until that revision of AS/NZS 3200.

IEC		AS/NZS	
61000-4-3	Part 4-3: Testing and measurement techniques—Radiated, radio-frequency, electromagnetic field immunity test	61000.4.3	Part 4.3: Testing and measurement techniques—Radiated, radio-frequency, electromagnetic field immunity test
ISO			
14971	Medical devices—Application of risk management to medical devices	4810 4810.1	Medical devices—Risk management Part 1: Application of risk analysis
		AS/NZS ISO	
9999	Technical aids for persons with disabilities—Classification and terminology	9999	Assistive products for persons with disability—Classification and terminology
EN		AS	
614	Safety of machinery—Ergonomic design principles	4024	Safety of machinery
614-1	Part 1: Terminology and general principles	4024.1401	Part 1401: Ergonomic principles—Design principles—Terminology and general principles
853	Rubber hoses and hose assemblies—Wire braid reinforced hydraulic type—Specification	3791	Hydraulic hose
854	Rubber hoses and hose assemblies—Textile reinforced hydraulic type—Specification	3791	Hydraulic hose
		AS EN	
12182	Technical aids for disabled persons—General requirements and test methods	12182	Technical aids for disabled persons—General requirements and test methods

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

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INTRODUCTION

It appears from studies that the nursing and caring profession involves many physically burdening factors in the caring for and nursing of disabled persons. A hoist offers a safe means of supportive lifting and moving, either assisted or independently.

AUSTRALIAN/NEW ZEALAND STANDARD

Hoists for the transfer of disabled persons—Requirements and test methods**1 Scope**

This International Standard specifies requirements and test methods only for hoists and body-support units intended for the transfer of disabled persons as classified in ISO 9999:2002:

- 12 36 03 Mobile hoists with sling seats
- 12 36 04 Standing mobile hoists
- 12 36 06 Mobile hoists with solid seats
- 12 36 09 Hoist trolleys
- 12 36 12 Stationary hoists fixed to the wall/walls, floor and/or ceiling
- 12 36 15 Stationary hoists fixed to, mounted in or on another product
- 12 36 18 Stationary free-standing hoists
- 12 36 21 Body-support units for hoists

This International Standard does not apply to devices that transport persons between two levels (floors) of a building.

It does not include methods for the determination of ageing or corrosion of such hoists and units.

The requirements of this International Standard are formulated with regard to the needs of both the disabled persons being hoisted and the attendant using the hoist.

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 3746, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Survey method using an enveloping measurement surface over a reflecting plane*

ISO 3758, *Textiles — Care labelling code using symbols*

ISO 9999:2002, *Technical aids for persons with disabilities — Classification and terminology*

ISO 10993-1, *Biological evaluation of medical devices — Part 1: Evaluation and testing*

ISO 14253-1, *Geometrical Product Specifications (GPS) — Inspection by measurement of workpieces and measuring equipment — Part 1: Decision rules for proving conformance or non-conformance with specifications*