AS/NZS ISO 10535:2011
ISO 10535:2006

AS/NZS ISO 10535:2011

Australian/New Zealand Standard™

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


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.
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The following are represented on Committee ME-067:

Assistive Technology Suppliers Australasia
Association of Consultants in Access Australia
Australian Rehabilitation and Assistive Technology Association
Bus and Coach Association of New Zealand
Consumers Federation of Australia
Department of Family and Communities, SA
Engineers Australia
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We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

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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:

(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 International Standard' 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 or Australian/New Zealand Standards, as follows:

| *Reference to International Standard* | | *Australian/New Zealand Standard* | |
|---|---|---|---|
| IEC | | AS | |
| 60529 | Degrees of protection provided by enclosures (IP Code) | 60529 | Degrees of protection provided by enclosures (IP Code) |
| | | AS/NZS | |
| 60601 | Medical electrical equipment | 3200* | Medical electrical equipment |
| 60601-1 | Part 1: General requirements for basic safety and essential performance | 3200.1.0 | 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 | Electromagnetic compatibility (EMC) | 61000 | Electromagnetic compatibility (EMC) |
| 61000-3-2 | Part 3-2: Limits—Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) | 61000.3.2 | 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.

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|---|---|---|---|
| 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<br>4810.1 | Medical devices—Risk management<br>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.