

Australian Standard™

Lifts, escalators and moving walks

**Part 2: Passenger and goods lifts—
Electric**



This Australian Standard was prepared by Committee ME-004, Lift Installations. It was approved on behalf of the Council of Standards Australia on 30 November 2001 and published on 28 December 2001.

The following interests are represented on Committee ME-004:

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Association of Independent Lift Companies
Australian Building Codes Board
Australian Chamber of Commerce and Industry
Australian Elevator Association
Australian Industry Group
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Australian Standard™

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**Part 2: Passenger and goods lifts—
Electric**

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standard New Zealand Committee ME-004, Lift Installations, to supersede AS 1735.2—1997.

This Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee to produce it as an Australian Standard.

The objective of this Standard is to provide requirements for electric lifts that carry passengers or goods, or both.

The objective of this revision is to rectify anomalies in the existing editions, and accommodate recent changes in engineering practices and advances in technology, and to harmonize the Standard with the relevant major overseas Standards (viz., EN81.1 and ANSI/ASME A17.1).

This Standard forms Part 2 of the AS 1735 series of Standards, as follows:

Lifts, escalators and moving walks

- Part 1: General requirements
- Part 3: Passenger and goods lifts—Electrohydraulic
- Part 4: Service lifts—Power-operated
- Part 5: Escalators and moving walks
- Part 7: Stairway lifts
- Part 8: Inclined lifts
- Part 9: Special purpose industrial lifts
- Part 10(Int) Tests
- Part 11: Fire-rated landing doors
- Part 12: Facilities for persons with disabilities
- Part 13: Lifts for persons with limited mobility—Manually powered
- Part 14: Low-rise platforms for passengers
- Part 15: Lifts for people with limited mobility—Restricted use—Non-automatically controlled
- Part 16: Lifts for persons with limited mobility—Restricted use—Automatically controlled
- Part 17: Lifts for persons with limited mobility—Restricted use—Water-drive

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is for information and guidance only.

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STANDARDS AUSTRALIA

Australian Standard
Lifts, escalators and moving walks

Part 2: Passenger and goods lifts—Electric

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out requirements for electric lifts for carrying passengers or goods, or both.

This Standard is complementary to AS 1735.1, but the requirements of this Standard take precedence over corresponding requirements of that Standard.

Requirements for periodic inspection and testing are given in Appendix E.

NOTES:

- 1 AS 1170.4 should be considered for seismic conditions.
- 2 Alternative requirements for electric lifts carrying passengers or goods or both are set out in AS 1735.1.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1023	Low voltage switchgear and control gear—Protection of electric motors
1023.1	Part 1: Built-in thermal detectors and associated control units
1023.3	Part 3: Inherent overheat protectors
1170	Minimum design loads on structures
1170.4	Part 4: Earthquake loads
1288	Glass in buildings—Selection and installation
1319	Safety signs for the occupational environment
1428	Design for access and mobility
1428.1	Part 1: General requirements for access—New building work
1429	Electric cables—Polymeric insulated
1429.1	Part 1: For working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV
1442	Carbon steels and carbon-manganese steels—Hot-rolled bars and semifinished products
1530	Methods for fire tests on building materials, components and structures
1530.1	Part 1: Combustibility test for materials
1654	ISO system for limits and fits
1654.1	Part 1: Bases of tolerances, deviations and fits
1654.2	Part 2: Tables of standard tolerance grades and limit deviations for holes and shafts
1657	Fixed platforms, walkways, stairways and ladders—Design, construction and installation