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AS 1735.8.1:2020

Australian STANDARD®

STANDARDS Australia

Lifts, escalators and moving walks

Part 8.1: Safety rules for the construction and installation of lifts — Lifts for the transport of persons and goods — Electric lifts with inclined path (EN 81-22:2014, MOD)

This national standard is the adoption of EN 81-22:2014 with national modifications as set out in the Appendix ZZ to take account of Australian conditions with the permission of the European Committee for Standardization — CEN, Rue de la Science 23, B — 1040 Brussels, Belgium.

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Association of Consultants in Access Australia
Australasian Fire and Emergency Service Authorities Council
Australian Building Codes Board
Australian Chamber of Commerce and Industry
Australian Elevator Association
Australian Industry Group
Communications, Electrical and Plumbing Union — Electrical Division
Engineers Australia
Lift Engineering Society of Australia
Property Council of Australia

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Preface

This Standard was prepared by the Standards Australia Committee ME-004, Lift Installations.

The objective of this document is to specify the safety rules for the construction and installation of permanently installed new electric lifts, with traction or positive drive, serving defined landings levels, having a vehicle designed to convey passengers or passengers and loads, suspended by ropes or chains and travelling in a vertical plan along guide rails that are inclined at an angle of between 15° and 75° in relation to the horizontal.

Vibrations are dealt with for electric parts only. Direct effects on human bodies are not considered as harmful.

This document does not cover—

(a) lifts with drives other than those stated in Clause 1.1;

(b) installation of electric lifts in existing buildings to the extent that space does not permit;

(c) important modifications (see Annex E) to a lift installed before this document is brought into application;

(d) lifting appliances, such as paternosters, mine lifts, theatrical lifts, appliances with automatic caging, skips, lifts and hoists for building and public works sites, ships' hoists, platforms for exploration or drilling at sea, construction and maintenance appliances;

(e) safety during transport, installation, repairs, and dismantling of lifts;

(f) lifts with rated speed ≤ 0,15 m/s; and

(g) noise in lifts.

This document does not specify the additional requirements necessary for the use of lifts in case of fire.

Considering the state of art, the scope of this document is limited as follows:

(i) inclination: a variation in inclination is permitted for the travel path;

(ii) travel path: confined within the vertical plane;

(iii) maximum capacity of the car: 7 500 kg (100 passengers); and

(iv) maximum rated speed (v): 4 m/s.

Both characteristics (capacity and speed) are linked by the relation given in Figure 1.

This document applies to all the constituent components of the lift including—

(A) running tracks;

(B) guides;

(C) safety gear operating device; and

(D) counter-rails.

This document excludes—

(1) supporting structures;

(2) civil engineering structures; and

(3) anchorages that are dealt with by other regulations.

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This document is not applicable for inclined lifts which are manufactured before 2014.

This document is an adoption with national modifications, and has been reproduced from, EN 81-22:2014, *Safety rules for the construction and installation of lifts — Lifts for the transport of persons and goods — Part 22: Electric lifts with inclined path*.

The modifications are additional requirements and are set out in Appendix ZZ, which has been added at the end of the source text.

Appendix ZZ lists the variations to EN 81-22:2014 for the application of this document in Australia.

As this document has been reproduced from an International Standard, the following applies:

(aa) In the source text "this European Standard" should read "this document".

(bb) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

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