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BRITISH STANDARD 2655: Part 1:1957

# ELECTRIC LIFTS

## PART 1

### GENERAL REQUIREMENTS

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BRITISH STANDARD SPECIFICATION

# ELECTRIC LIFTS

PART 1

GENERAL REQUIREMENTS

B.S. 2655 : Part 1 : 1957

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THIS BRITISH STANDARD, having been approved by the Mechanical Engineering Industry Standards Committee and endorsed by the Chairman of the Engineering Divisional Council, was published under the authority of the General Council on 27th June, 1957.

The Institution desires to call attention to the fact that this British Standard does not purport to include all the necessary provisions of a contract.

In order to keep abreast of progress in the industries concerned, British Standards are subject to periodical review. Suggestions for improvements will be recorded and in due course brought to the notice of the committees charged with the revision of the standards to which they refer.

A complete list of British Standards, numbering over 2500, indexed and cross-indexed for reference, together with an abstract of each standard, will be found in the Institution's Yearbook, price 15s.

This standard makes reference to the following British Standards :

- B.S. 7. Rubber-insulated cables and flexible cords for electric power and lighting.
- B.S. 31. Steel conduits and fittings for electrical wiring.
- B.S. 46. Part 1. Keys and keyways.
- B.S. 292. Dimensions of ball bearings and parallel roller bearings.
- B.S. 329. Round strand steel wire suspension ropes for lifts and hoists.
- B.S. 436. Machine cut gears, A.—Helical and straight spur.
- B.S. 462. Bull dog grips for wire ropes for general engineering purposes.
- B.S. 463. Sockets for wire ropes for general engineering purposes.
- B.S. 464. Thimbles for wire ropes for general engineering purposes.
- B.S. 529. Part 2. Steel eyebolts.
- B.S. 587. Motor starters and controllers and resistors employed therewith.
- B.S. 613. Components for radio-interference suppression devices.
- B.S. 621. Wire ropes of special construction for engineering purposes, including cranes, lifts and excavators.

- B.S. 643. Capping metal for steel wire ropes.
  - B.S. 721. Machine cut gears, C.—Worm gearing.
  - B.S. 727. Characteristics and performance of apparatus for measurement of radio interference.
  - B.S. 731. Flexible steel conduit and adaptors for the protection of electric cable.
  - B.S. 774. Under-floor steel ducts for electrical services, with fittings.
  - B.S. 775. Contactors.
  - B.S. 800. Limits of radio interference.
  - B.S. 815. Under-floor non-metallic ducts for electrical services, with fittings.
  - B.S. 820. Grey cast-iron conduit boxes for electrical wiring.
  - B.S. 857. Safety glass for land transport.
  - B.S. 951. Earthing clamps.
  - B.S. 977. Flexible cables for power and control circuits of electric lifts.
  - B.S. 1231. P.V.C. cables and cords for switchboard panel wiring.
  - B.S. 1557. Polythene-insulated cables sheathed with P.V.C. for electric power and lighting up to 250 volts.
  - B.S. 2004. Polyvinyl chloride insulated cables and flexible cords for electric power and lighting.
  - B.S. 2059. Straight-sided splines and serrations.
  - CP 321\*. Electrical installations—general.
  - CP 321.101. Electric wiring systems (for power, lighting and heating circuits) in buildings.
  - CP 321.102. Installation and maintenance of electrical machines, transformers, rectifiers, capacitors and associated equipment.
  - CP 407.101. Electric lifts for passengers, goods and service.
  - CP 1006. General aspects of radio interference suppression.
- British Standards are revised, when necessary, by the issue either of amendment slips or of revised editions. It is important that users of British Standards should ascertain that they are in possession of the latest amendments or editions.*

\* Temporarily out of stock, pending revision.  
The following B.S.I. references relate to the work on this standard:—  
Committee reference MEE/49. Draft for comment CW(MEE) 1814.

### CO-OPERATING ORGANIZATIONS

The Mechanical Engineering Industry Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific and industrial organizations:—

Admiralty  
 Air Ministry  
 \*Associated Offices' Technical Committee  
 Association of Consulting Engineers (Incorporated)  
 British Chemical Plant Manufacturers' Association  
 British Compressed Air Society  
 \*British Electrical and Allied Manufacturers' Association  
 \*British Engineers' Association  
 British Internal Combustion Engine Manufacturers' Association  
 British Iron and Steel Federation  
 \*British Railways, The British Transport Commission  
 Central Electricity Authority and Area Boards  
 Crown Agents for Oversea Governments and Administrations  
 D.S.I.R.—Mechanical Engineering Research Laboratory  
 \*Engineering Equipment Users' Association  
 Gas Council  
 High Commission of India  
 Institute of Marine Engineers  
 Institute of Petroleum  
 Institution of Civil Engineers  
 Institution of Gas Engineers  
 Institution of Heating and Ventilating Engineers  
 \*Institution of Mechanical Engineers  
 Institution of Production Engineers (Automobile Division)  
 Locomotive and Allied Manufacturers' Association  
 Machine Tool Trades' Association  
 \*Ministry of Labour and National Service (Factory Department)  
 Ministry of Power  
 \*Ministry of Supply  
 Ministry of Transport and Civil Aviation  
 \*Ministry of Works  
 The National Physical Laboratory (D.S.I.R.)  
 Radio Industry Council  
 War Office

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the Committee entrusted with the preparation of this standard:—

Engineer Surveyors Association  
 General Post Office  
 Institution of Electrical Engineers  
 Institution of Municipal Engineers  
 London County Council  
 London Transport Executive, British Transport Commission  
 National Association of Liftmakers

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## BRITISH STANDARD SPECIFICATION FOR ELECTRIC LIFTS

### Part 1. General Requirements

#### FOREWORD

This British Standard, prepared under the authority of the Mechanical Engineering Industry Standards Committee, is being published in the form in which it was circulated to industry for comment. After consideration of the comments, the committee decided to make no alterations of substance to the draft, and decided that requests for early publication would best be met by issuing the standard forthwith. This is, therefore, being done and the committee will give detailed consideration to the comments received with a view to their being taken into account in any subsequent revision.

This standard applies to the construction and safety of new passenger, goods and service lifts installed where the minimum structural requirements in Appendix B, for passenger and goods lifts, and in Appendix C, for service lifts, are satisfied. The clauses of the specification which apply to service lifts have been separated from those for passenger and goods lifts (Section Two) and appear together in Section Four. It should be noted that this standard has been published in three parts, of which this is Part 1 covering general requirements. The other parts are:—

*\*Part 2.* 'Single-speed polyphase induction motors for driving lifts', which gives the special requirements applying to the most commonly used type of lift motor. It should be read in conjunction with B.S. 2613, 'The electrical performance of rotating electrical machinery'.

*Part 3.* 'Outline dimensions for electrical lifts', which gives recommended dimensions for lift wells, in relation to lift capacity and platform size, and areas for machine room floors, for six classes of lift.

#### SPECIFICATION

##### SECTION ONE : GENERAL

###### SCOPE

1. This standard applies to electric passenger lifts, goods lifts and service lifts suspended by ropes and employing a guided lift car or platform to be installed in a situation where the structural requirements of Appendices B or C are carried out.

\* In course of preparation.