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BRITISH STANDARD SPECIFICATION
LIFTS, ESCALATORS, PASSENGER
CONVEYORS AND PATERNOSTERS.

ELECTRIC LIFTS

PART 1

GENERAL REQUIREMENTS
FOR ELECTRIC LIFTS.

B.S. 2655 : Part 1 : 1958

Price 15/- net

BRITISH STANDARDS INSTITUTION
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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 20th October, 1958.

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 3000, 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. 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. Helical and straight spur gears.
- 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. 587. Motor starters and controllers.
- B.S. 592. Steel eyebolts.
- B.S. 613. Components for radio-interference suppression.
- B.S. 643. Capping metal for steel wire ropes.
- B.S. 721. Worn gears.
- B.S. 800. Limits of radio interference.
- B.S. 2059. Straight-sided splines and serrations.

The following codes of practice are mentioned :

- CP. 321. Electrical installations—general
- CP. 321.101. Electrical 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 services.

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.

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 Gear Manufacturers Association
British Internal Combustion Engine Manufacturers' Association
British Iron and Steel Federation
*British Railways, The British Transport Commission,
*Crown Agents for Oversea Governments and Administrations
D.S.I.R.—Mechanical Engineering Research Laboratory
Electricity Council, the Generating Board and Area Boards in England and Wales
*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 of Great Britain
Machine Tool Trades Association
*Ministry of Labour and National Service (Factory Inspectorate)
Ministry of Power
Ministry of Transport and Civil Aviation
*Ministry of Works
National Coal Board
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
Institution of Electrical Engineers
Institution of Municipal Engineers
London County Council
London Transport Executive, The British Transport Commission
National Association of Liftmakers
Post Office
An individual manufacturer.

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BRITISH STANDARD SPECIFICATION FOR
Escalators, passenger conveyors and
ELECTRIC LIFTS passenger paternosters and
Part 1. General Requirements
for electric lifts.

FOREWORD

This British Standard, prepared under the authority of the Mechanical Engineering Industry Standards Committee, is a revision of and supersedes the 1957 edition.

It applies to the construction and safety of new lifts for passengers, goods and service installed where the minimum structural requirements in Appendix B for passenger and goods lifts, and in Appendix C for service lifts, are satisfied. Section Two deals with passenger and goods lifts only and Section Four with service lifts. It should be noted that this standard is in three parts, of which this is Part 1.

Part 2, 'Single-speed polyphase induction motors for driving lifts' covers the special requirements applying to the most commonly used type of lift motor.

Part 3, 'Outline dimensions for electrical lifts', 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 to be installed in a situation where the structural requirements of Appendix B or C are carried out. It does not apply to platform lifts and motor vehicle lifts, amusement devices, skip hoists, conveyors or similar apparatus used for raising, piling or tiering.

DEFINITIONS

2. For the purposes of this British Standard the following definitions apply :
Bottom overtravel. (See Overtravel, bottom.)

Buffer. A device designed to absorb the impact of the lift car or counterweight.
Astragal. A moulding applied to the meeting faces of a door panel and/or door jambs.