BS 2655-7: 1970

Incorporating Amendment Nos. 1 and 2

Specification for

Lifts, escalators, passenger conveyors and paternosters —

Part 7: Testing and inspection

UDC 621.876.3



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:

Associated Offices' Technical Committee*
Association of Consulting Engineers
Association of Mining Electrical and
Mechanical Engineers
Board of Trade
British Chemical Plant Manufacturers'
Association
British Compressed Air Society

British Electrical and Allied Manufacturers'
Association*

British Gear Manufacturers' Association British Internal Combustion Engine Manufacturers' Association British Mechanical Engineering

Confederation*

British Pump Manufacturers' Association British Steel Industry

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Department of Employment and Productivity* Electricity Council, the Central Electricity Generating Board and the Area Boards in England and Wales

Engineering Equipment Users' Association* Gas Council Institution of Civil Engineers Institution of Gas Engineers

Institution of Heating and Ventilating
Engineers

Institution of Mechanical Engineers*
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National Physical Laboratory (Ministry of Technology)

Royal Institute of British Architects Water-tube Boilermakers Association

The Government departments and scientific and industrial 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 British Standard:

County Councils Association
Department of Health and Social Security
Draughtsmen's and Allied Technicians'
Association
Electrical, Electronic, Telecommunications
and Plumbing Trades Union
Engineers Surveyors' Association
Federation of Wire Rope Manufacturers of

British Railways Board

Great Britain

Fire Offices' Committee
Greater London Council
Institution of Electrical Engineers
Institution of Municipal Engineers
Mechanical Handling Engineers Association
Ministry of Housing and Local Government
National Association of Lift Makers
Post Office
Retail Trading Standards Association

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Foreword

This standard makes reference to the following British Standard:

BS 2613, The electrical performance of rotating electrical machinery.

This British Standard, prepared under the authority of the Mechanical Engineering Industry Standards Committee, is a revision of and supersedes the 1958 edition, which was entitled "Electric lifts".

The new title reflects the extension of the scope of this British Standard. Amendments to Parts 2 and 3 of this standard have been published, and implement the change in title. The revised Part 1 and additional new parts are being published separately and, together with Parts 2 and 3, are as follows:

Part 1: General requirements for electric, hydraulic and hand-powered lifts. This Part is basically a revision of the 1958 edition of BS 2655-1, without the building requirements and list of definitions, and extended to cover the engineering and safety requirements for new hydraulic and hand-powered lifts as well as for new electric lifts.

Part 2: Single speed polyphase induction motors for driving lifts. This Part covers the type of electric motor specially designed for driving lifts. It should be used in conjunction with BS 2613¹⁾ and gives additional requirements including the class of lift rating and special limits of temperature rise.

Part 3: Arrangements of standard electric lifts. This part gives standard dimensions for lift wells and machine rooms in relation to life capacity and platform sizes, for seven classes of lifts.

Part 4: General requirements for escalators and passenger conveyors. This Part specifies engineering and safety requirements for escalators and passenger conveyors. The latter may be described as machines in which the passenger carrying surface remains parallel to the direction of motion and are uninterrupted.

Part 5: General requirements for paternosters. This Part specifies engineering and safety requirements for paternosters which may be described as machines where series of cars are continuously running in closed loops, and are characterized by the car floors remaining substantially horizontal when the direction of motion is reversed at the extremities of car travel.

Part 6: Building construction requirements. This Part specifies structural and fire resistance requirements for the equipment covered by Parts 1, 4 and 5.

Part 7: Testing and inspection. This Part specifies tests, examination and certification of new and modified equipment covered by Parts 1, 4 and 5.

Part 8: Modernization or reconstruction of lifts. This Part specifies engineering and safety requirements.

Part 9: Definitions. This Part gives definitions of terms used in the remainder of the standard.

Part 10: General requirements for guarding. This part specifies requirements for the guarding of moving parts and protection against hazards from electrical equipment. It relates to equipment covered in Parts 1, 4 and 5.

CP 407:1972, British Standard Code of Practice for electric, hydraulic and hand-powered lifts. The code gives general information and guidance for planning, purchasing, installation and maintenance of passenger, goods and service lifts.

In case of difficulty in classifying any equipment in accordance with the headings of Parts 1, 4 and 5, reference should be made to the relevant definitions in Part 9.

This part of the standard covers examination and certification of new [see Amendment No. 2 (May 1979)] and modified equipment covered by Parts 1, 4 and 5. It is principally concerned with safety.

¹⁾ BS 2613, "The electrical performance of rotating electrical machinery".

It extends the scope of the tests which were included in the 1958 edition of the standard, and the types of certificate now included require that assurances of satisfactory performance from certain aspects be given together with certain contract and performance data. The certificates also require that the equipment to which they relate shall comply with all the relevant requirements of the standard. However, an "Exemption" clause is included for non-compliance where this is acceptable to the Certification Authority and other affected parties, such as the user.

It is envisaged that a Central Certification Authority might be set up, but in the interim the authority for signing the certificate will be one acceptable to the parties concerned (such as the manufacturer, user, insurance company and appropriate safety authority). In many cases this will in practice be a representative of the manufacturer.

Appendix A and Appendix F of this Part of this standard are rendered obsolescent concurrently with the publication of BS 5655 "Lifts and service lifts" Part 1:1979 "Safety rules for the construction and installation of electric lifts", under the conditions stated below.

- 1) This standard is no longer applicable to all new lifts installed in such new buildings as are designed after the date of publication of BS 5655-1 (31 May 1979).
- 2) All new lifts ordered after 31 May 1979, for installation in such buildings as have not yet been commenced but for which final plans existed before 31 May 1979, should be constructed preferably in accordance with BS 5655-1 or, if space considerations make it necessary, in accordance with this standard. If, however, such lift installations are scheduled for commissioning after 31 May 1984, the requirements of BS 5655-1 only are applicable.
- 3) All new lifts ordered after 31 May 1979, for installation in such new buildings as were under construction or completed before that date, are permitted to be constructed in accordance with either this standard or BS 5655-1. If, however, such lift installations are scheduled for commissioning after 31 May 1984, the requirements of BS 5655-1 only are applicable unless it can be shown that, owing to space limitations, compliance is not reasonably practicable.
- 4) Such new replacement lifts and major modifications to existing lifts as are commissioned before 31 May 1984, for use in existing buildings that were built before 31 May 1979, are permitted to be in accordance with either this standard or BS 5655-1. After 31 May 1984, the requirements of BS 5655-1 only are applicable unless it can be shown that, owing to space limitations, compliance is not reasonably practicable. Special provisions are permissible to meet certain site conditions often present in buildings that have been in use for many years. It is intended that the use of new equipment should not automatically be restricted because certain site conditions are now more rigorous than formerly.

Appendix F of BS 2655-7:1970 will, however, continue to be applicable to the future maintenance and inspection of existing electric lift installations constructed in accordance with BS 2655.

Appendix A and Appendix F. Appendix A and Appendix F of this Part of this standard should be endorsed:

This appendix is rendered obsolescent under the conditions stated in the foreword (See Amendment No. 2).