

Australian Standard[®] 1735.3—1986

SAA LIFT CODE

Part 3—PASSENGER AND
GOODS LIFTS—
ELECTROHYDRAULIC



STANDARDS ASSOCIATION OF AUSTRALIA
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This Australian standard was prepared by Committee ME/4, Lift Installations. It was approved on behalf of the Council of the Standards Association of Australia on 12 February 1986 and published on 7 April 1986.

The following interests are represented on Committee ME/4:

Association of Consulting Engineers Australia
Association of Independent Lift Companies
Australian Chamber of Commerce
Australian Uniform Building Regulations Co-ordinating Council
Board of Fire Commissioners of New South Wales
Building Owners and Managers Association of Australia Limited
Confederation of Australian Industry
Department of Employment and Industrial Affairs, Qld
Department of Employment and Industrial Affairs, Vic.
Department of Housing and Construction
Department of Industrial Relations, N.S.W.
Department of Labour, S.A.
Department of Labour and Industry, Tas.
Department of Mines and Energy, N.T.
Department of Occupational Health, Safety and Welfare, W.A.
Department of Public Works, N.S.W.
Department of Territories
Institution of Engineers, Australia
Insurance Council of Australia
Lift Manufacturers Association of Australia Limited
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This standard was issued in draft form for comment as DR 84251.

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STANDARDS AUSTRALIA

Amendment No 1
to
AS 1735.3—1986
Lifts, escalators, and moving walks
Part 3: Passenger and goods lifts—Electrohydraulic

REVISED TEXT

The 1986 edition of AS 1735.3 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Contents, Clause 7.4.3.3, Section 26, Clauses 30.1.1 and 30.5, and Appendix A (new).

Published on 14 July 1989.

Page 4. Contents.

Add the following entry:

APPENDIX A. PERIODIC INSPECTION AND TESTING 26

AMDT
No 1
JULY
1989

Page 13. Clause 7.4.3.3.

Delete existing Clause and substitute:

7.4.3.3 Location. The location and the method of installation of hoses shall not prevent visual inspections.

NOTE: It is acceptable for a hose to require removal, to permit visual inspections.

The locations of hoses and connections shall permit replacement of the hoses and the connections.

Flexible connections shall not be installed between the cylinder and the flow-restriction valve required by Clause 7.5.5.

AMDT
No 1
JULY
1989

Page 23. Section 26.

Delete existing Section and substitute:

SECTION 26. ELECTRICAL INSTALLATION

The electrical installation shall comply with the requirements of Section 26 of AS 1735.2.

The circuit-breaker required by Clause 26.2 of AS 1735.2 shall be provided with a notice on or adjacent to it, bearing the following words:

EXCEPT FOR EMERGENCIES OR SERVICING, DO NOT OPEN THIS SWITCH UNLESS HYDRAULIC LIFT IS AT BOTTOM LANDING

In the ninth line of the fifth paragraph of Clause 26.9 of AS 1735.2, 'main control contactor or contactors' may include the coils of solenoid valves on electrohydraulic lifts.

AMDT
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JULY
1989

Page 24. Clause 30.1.1.

Delete existing Clause and substitute:

30.1.1 Compliance with AS 1735.2. Electrical protective devices shall comply with the following Clauses of AS 1735.2, except where exempted by Clause 30.1.2 herein:

- 30.1 to 30.7
- 30.10
- 30.11
- 30.14 to 30.17.

NOTE: The phase-reversal protection required by Clause 30.20 of AS 1735.2 is not required for electrohydraulic lifts.

AMDT
No 1
JULY
1989

AMDT
No 1
JULY
1989

Page 24. Clause 30.5.

Delete existing Clause and substitute:

30.5 DOOR LOCK VALVE TEST SWITCH. A test switch shall be provided which shall enable compliance with the requirements of Clause 7.5.4 for the door lock valve to be tested.

AMDT
No 1
JULY
1989

Page 26. New Appendix A.

Add the following Appendix:

APPENDIX A

PERIODIC INSPECTION AND TESTING

Periodic inspection and testing of every installation should be carried out at intervals of not more than one year.

Regular maintenance of the installation should be performed at more frequent intervals.

AUSTRALIAN STANDARD

LIFTS, ESCALATORS, AND MOVING WALKS

Known as the
SAA LIFT CODE

Part 3 PASSENGER AND GOODS LIFTS— ELECTROHYDRAULIC

AS 1735.3—1986

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PREFACE

This edition of this standard was prepared by the Association's Committee on Lift Installations, to supersede AS 1735, Part 3—1982, Electrohydraulic Lifts: Passenger and Goods.

This edition includes the following technical changes:

- (a) Clause 5.2 has been amended to allow for a reduction of the variations to the SAA Lift Code in the Lift Regulations of Victoria.
- (b) Clause 7.4.1.4 permits the use of flared screwed hydraulic connections on hydraulic lifts.
- (c) Clause 7.4.3.5 and Figs 7.4.3.5(A) and 7.4.3.5(B) have been amended to remove misleading information.
- (d) Clauses 8.1.4 and 8.1.5 allow for the specific clearances needed above cars which are supported by crossheads located at the side of hydraulic lift cars.

Other changes of an editorial nature have been made to bring the standard into line with current SAA policy.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

for

LIFTS, ESCALATORS, AND MOVING WALKS

PART 3—PASSENGER AND GOODS LIFTS—ELECTROHYDRAULIC

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This standard sets out requirements for electrohydraulic lifts for carrying passengers and goods.

This standard is complementary to AS 1735.1 and AS 1735.2, but the requirements of this standard take precedence over corresponding requirements of those standards.

1.2 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

AS 1074	Steel Tubes and Tubulars Threaded or Suitable for Threading with Pipe Threads of Whitworth Form	AS 1735.10	SAA Lift Code, Part 10—Tests
AS 1250	SAA Steel Structures Code	AS 1835	Tubes for Pressure Purposes—Seamless Steel
AS 1392	Precast Concrete Pressure Pipes	AS 1836	Tubes for Pressure Purposes—Welded Steel
AS 1711	Asbestos Cement Pressure Pipes	AS 2129	Flanges for Pipes, Valves and Fittings
AS 1722	Pipe Threads of Whitworth Form Part 1—Sealing Pipe Threads	AS 2544	Grey Iron Pressure Pipes and Fittings
AS 1735.1	SAA Lift Code, Part 1—General Requirements	AS B226	Hydraulic Hose
AS 1735.2	SAA Lift Code, Part 2—Passenger and Goods Lifts—Electric	AS CB15	SAA Pipe Welding Code
		BS 1600	Dimensions of Steel Pipe for the Petroleum Industry
		BS 1640	Wrought and Cast Austenitic Chromium-nickel Steel Fittings
		BS 1740	Wrought Steel Pipe Fittings (Screwed BSP Thread) Part 1—Metric Units
		ANSI/ASME B1.20.1	Pipe Threads, General Purpose (Inch)
		ANSI/ASME B36.10	Welded and Seamless Wrought Steel Pipe
		SAE J516 JUN 84	Hydraulic Hose Fittings.

SECTION 2. SPEED

The rated speed of an electrohydraulic lift (see Clause 2.120 of AS 1735.1) shall be not more than 1 m/s.

The speed in the down direction, under full load conditions, shall not exceed the relevant maximum value given in Table 2.1, subject to a maximum of 1.4 m/s.

TABLE 2.1
MAXIMUM SPEED IN DOWN DIRECTION

Type of lift	percent of rated speed	
	Maximum speed in down direction	
	Where rated speed ≤ 0.5 m/s	Where rated speed > 0.5 m/s ≤ 1 m/s
Passenger	150	140
Passenger and goods	150	140
Goods	160	150*

* Subject to a maximum of 1.4 m/s.