

AS 1735.16—1993

Australian Standard[®]

Lifts, escalators, and moving walks

**Part 16: Lifts for persons with
limited mobility—Restricted use—
Automatically controlled**

This Australian Standard was prepared by Committee ME/4, Lift Installations. It was approved on behalf of the Council of Standards Australia on 7 June 1993 and published on 13 September 1993.

The following interests are represented on Committee ME/4:

A.C.T. Occupational Health and Safety Authority
Association of Consulting Engineers, Australia
Association of Independent Lift Companies
Australian Assembly of Fire Authorities
Australian Chamber of Commerce and Industry
Australian Uniform Building Regulations Coordinating Council
Building Owners and Managers Association of Australia
Department of Administrative Services—Australian Construction Services
Department of Employment, Industrial Relations and Training, Tas.
Department of Employment, Vocational Education, Training and Industrial Relations, Qld
Department of Labour, S.A.
Department of Occupational Health, Safety and Welfare, W.A.
Institution of Engineers, Australia
Lift Manufacturers Association of Australia
Metal Trades Industry Association of Australia
Occupational Health and Safety Authority, Vic.
Public Works Department, N.S.W.
WorkCover Authority, N.S.W.
Work Health Authority, N.T.

Additional interests participating in preparation of Standard:

Australian Council for Rehabilitation of Disabled
Technical Aid to the Disabled

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 92192.

AS 1735.16—1993

Australian Standard[®]

Lifts, escalators, and moving walks

**Part 16: Lifts for persons with
limited mobility—Restricted
use—Automatically controlled**

First published as AS 1735.16—1993.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 8339 8

PREFACE

This Standard was prepared by the Standards Australia Committee on Lift Installations. It was requested by manufacturers and users of lifts, statutory authorities for lifts, and interests concerned about persons having limited mobility, for the purposes of safety and uniformity.

This Standard is one of a series of Standards covering lifting devices that are able to assist persons with limited mobility; others in the series are as follows:

AS

- 1735 Lifts, escalators, and moving walks
- 1735.2 Part 2: Passenger and goods lifts—Electric
- 1735.3 Part 3: Passenger and goods lifts—Electrohydraulic
- 1735.7 Part 7: Stairway lifts
- 1735.8 Part 8: Inclined lifts
- 1735.12 Part 12: Facilities for persons with disabilities
- 1735.13 Part 13: Lifts for persons with limited mobility—Manually powered
- 1735.14 Part 14: Lifts for people with limited mobility—Restricted use—Low-rise platforms
- 1735.15 Part 15: Lifts for people with limited mobility—Restricted use—Non-automatically controlled lifts

© Copyright — STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	6
1.2 APPLICATION	6
1.3 INNOVATION	6
1.4 REFERENCED DOCUMENTS	7
1.5 DEFINITIONS	7
SECTION 2 DESIGN LIMITATIONS	
2.1 SPEED	8
2.2 TRAVEL	8
2.3 RATED LOAD	8
2.4 CAR SIZE	8
2.5 FACTOR OF SAFETY	8
SECTION 3 MATERIALS	
3.1 GENERAL	8
3.2 WEATHER RESISTANCE	8
SECTION 4 DRIVING MACHINES	
4.1 GENERAL	9
4.2 SHAFTS AND ATTACHMENTS	9
4.3 DRIVE DIRECTION	9
4.4 MANUAL OPERATION	9
4.5 LOCATION OF EQUIPMENT	9
SECTION 5 SUSPENSION AND SUPPORTING SYSTEMS	
5.1 MEANS	10
5.2 ROPE	10
5.3 CHAIN	11
5.4 RACK AND PINION	12
5.5 SCREW-DRIVEN MACHINES	12
5.6 HYDRAULICS	13
SECTION 6 LIFTWELLS	
6.1 SUPPORTING STRUCTURE	14
6.2 ENCLOSURE	14
6.3 SURFACE OF LIFTWELL	14
6.4 TOP OVERTRAVEL OF CAR	15
6.5 CAR CLEARANCES	15
SECTION 7 GUIDE RAILS	
7.1 PROVISION	18
7.2 LENGTH	18
7.3 GUIDE RAILS AND ASSOCIATED FIXINGS	18
7.4 STRESSES IN AND DEFLECTIONS OF GUIDE RAILS	18

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-