

AS 1418.10—1996

Australian Standard[®]

Cranes (including hoists and winches)

Part 10: Elevating work platforms

This Australian Standard was prepared by Committee ME/5, Cranes. It was approved on behalf of the Council of Standards Australia on 1 November 1995 and published on 5 February 1996.

The following interests are represented on Committee ME/5:

Association of Consulting Engineers, Australia
Australian Chamber of Manufactures
Australian Institute of Building
Bureau of Steel Manufacturers of Australia
Construction and Mining Equipment Association of Australia
Crane Industry Council of Australia
Department of Defence (Commonwealth)
Department of Employment, Vocational Education, Training and Industrial Relations, Qld
Department of Industrial Affairs, S.A.
Department of Occupational Health, Safety and Welfare, W.A.
Health and Safety Organization, Vic.
Institution of Engineers, Australia
Lift Manufacturers Association of Australia
Metal Trades Industry Association of Australia
Railways of Australia Committee
Tasmania—Development and Resources
Telstra, Australia
University of New South Wales
WorkCover, N.S.W.
Work Health Authority, N.T.

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which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.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 91100.

AS 1418.10—1996

Australian Standard®

**Cranes (including hoists and
winches)**

Part 10: Elevating work platforms

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

ISBN 0 7337 0201 5

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME/5 on Cranes to supersede AS 1418.10—1987, *Cranes (including hoists and winches)*, Part 10: *Elevating work platforms*. This Standard is a result of a consensus among representatives on the Joint Committee to produce it as an Australian Standard.

Major alterations to the previous edition are as follows:

- (a) A new section on pedestrian-controlled elevating work platforms.
- (b) A change to the stability requirements.
- (c) Stability test acceptance criteria changed.
- (d) Prescriptive elements of electrical testing requirements removed.
- (e) Electrical testing requirements clarified.
- (f) Requirements for glass fibre reinforced plastics used in a structural function added.
- (g) Wind load criteria for machines used in non-wind conditions have changed.
- (h) Appendices extended to include means for demonstrating compliance with this Standard, computer calculations, worked examples and tipping lines of elevating work platforms.

In the preparation of this Standard, cognizance has been taken of comparable current Standards in the United Kingdom, Canada, the United States of America and Europe.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

Originated as AS 1418.10—1987.
Second edition 1996.

© 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	4
1.2 APPLICATION	4
1.3 REFERENCED DOCUMENTS	4
1.4 DEFINITIONS	6
1.5 DESIGN	6
1.6 GLASS FIBRE REINFORCED PLASTIC	16
1.7 ELECTRICAL EQUIPMENT	17
1.8 HYDRAULIC EQUIPMENT	17
1.9 PNEUMATIC EQUIPMENT	17
1.10 CONTROLS AND INDICATORS	17
1.11 RATING	18
1.12 PERFORMANCE REQUIREMENTS	20
1.13 TEST REPORT	24
1.14 OPERATION AND MAINTENANCE INSTRUCTIONS	24
1.15 MARKING	25
SECTION 2 PEDESTRIAN-CONTROLLED ELEVATING WORK PLATFORMS	
2.1 GENERAL REQUIREMENTS	27
2.2 SPECIFIC REQUIREMENTS	27
SECTION 3 MANUALLY PROPELLED ELEVATING WORK PLATFORMS	
3.1 GENERAL REQUIREMENTS	28
3.2 SPECIFIC REQUIREMENTS	28
SECTION 4 SELF-PROPELLED ELEVATING WORK PLATFORMS	
4.1 GENERAL REQUIREMENTS	28
4.2 SPECIFIC REQUIREMENTS	28
SECTION 5 VEHICLE-MOUNTED AND TRAILER-MOUNTED ELEVATING WORK PLATFORMS	
5.1 GENERAL REQUIREMENTS	29
5.2 SPECIFIC REQUIREMENTS	29
APPENDICES	
A MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD	30
B TYPICAL ELEVATING WORK PLATFORMS	32
C TYPICAL BASKETS, PLATFORMS, OUTRIGGERS, STABILIZERS, AND EXTENDIBLE AXLES	35
D COMPUTER CALCULATIONS	41
E WORKED EXAMPLES FOR THE DESIGN OF GLASS FIBRE REINFORCED PLASTIC BOOMS	42
F LOADS AND FORCES IN STABILITY CALCULATIONS	49
G STABILITY CALCULATIONS	52
H TIPPING LINES OF ELEVATING WORK PLATFORMS	58
I TEST CERTIFICATE FORMAT	60

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
-