

1418.10
JP

Under Revision. See DR 91100

Amendment 1 - August 1989

Superseded by AS 1418.10-1996

AS 1418.10-1987



Standards
Association of
Australia



Australian Standard[®] 1418.10—1987

SAA CRANE CODE Part 10—ELEVATING WORK PLATFORMS



This Australian Standard was prepared by Committee ME/5, Cranes. It was approved on behalf of the Council of the Standards Association of Australia on 21 September 1987 and published on 2 November 1987.

The following interests are represented on Committee ME/5:

Association of Consulting Engineers, Australia
Australian Crane Marketers Association Inc.
Bureau of Steel Manufacturers of Australia
Confederation of Australian Industry
Construction Equipment Importers and Manufacturers of Australia
Crane Industry Council of Australia
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This Standard was issued in draft form for comment as DR 84263.

This amendment has the wrong AMD number in the margin.

AS 1418.10/Amdt 1/1989-08-11

STANDARDS AUSTRALIA

**Amendment No 1
to
AS 1418.10—1987
SAA Crane Code
Part 10: Elevating work platforms**

REVISED TEXT



The 1987 edition of AS 1418.10 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to the Preface and Clause 1.5.3.

Published on 11 August 1989.

AUSTRALIAN STANDARD

**CRANES (INCLUDING HOISTS
AND WINCHES)**

**Known as the
SAA CRANE CODE**

**Part 10
ELEVATING WORK
PLATFORMS**

AS 1418.10—1987

First published1987

**PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY, N.S.W.**

ISBN 0 7262 4758 8



PREFACE

This Standard was prepared by the Association's Committee on Cranes. It covers specific requirements for elevating work platforms and is intended to be used in conjunction with AS 1418.1, SAA Crane Code, Part 1—General Requirements.

Elevating work platforms are clearly personnel carriers and AS 1418.1 does not identify specific factors of safety for that type of application except for GRP. Of consequence a personnel loading factor (K_p) has been introduced into this Standard for the aspect of personnel carrying. The initial value designated for (K_p) is 1.2 and will be subject to review at the next edition (see Clause 4.5.3(a)).

In the preparation of the Standard, cognizance has been taken of comparable current Standards in the United Kingdom, Canada, and United States of America. ^{1.5.3.2} SEE AMENDMENT 1

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AMDT
No 2 /
AUG.
1989

Page 2. Preface. Second paragraph, last line.

Delete '(see Clause 1.5.3(a))' and *substitute* '(see Clause 1.5.3.2)'.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

CRANES (INCLUDING HOISTS AND WINCHES)

Part 10—ELEVATING WORK PLATFORMS

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This Standard sets out requirements for elevating work platforms as defined in AS 2549. It does not apply to passenger and goods lifts, builders' hoists, or fixed elevating work platforms.

It does not apply to any matter relating to firefighting equipment or any matter relating to the vehicles upon which aerial devices are mounted, except to a vehicle, being, while stationary, a stable support for the aerial device.

NOTES:

1. For typical elevating work platforms, see Appendix A.
2. For typical baskets, platforms, outriggers, stabilizers, and extendible axles, see Appendix B.

1.2 APPLICATION. Elevating work platforms shall comply with Section 1 of this Standard and with the following sections as applicable:

- Section 2 Manually propelled Elevating Work Platforms
 Section 3 Self-propelled Elevating Work Platforms
 Section 4 Vehicle-mounted and Trailer-mounted Elevating Work Platforms

Specific requirements in Sections 2, 3, and 4 take precedence over corresponding requirements in Section 1.

This Standard is complementary to AS 1418.1, but the requirements given herein take precedence over corresponding requirements in that Standard.

1.3 REFERENCED DOCUMENTS. The following Standards are referred to in this Standard:

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|-----------|--|
| AS 1000 | The International System of Units (SI) and Its Application. |
| AS 1042 | Direct-acting Indicating Electrical Measuring Instruments and Their Accessories. |
| AS 1055 | Acoustics—Description and Measurement of Environment Noise
Part 1—General Procedures.
Part 2—Application to Specific Situations. |
| AS 1269 | Hearing Conservation. |
| AS 1418.1 | SAA Crane Code
Part 1—General Requirements. |
| AS 1425 | SAA Automotive LP Gas Code. |
| AS 1657 | SAA Code for Fixed Platforms, Walkways, Stairways, and Ladders. |
| AS 1755 | Conveyors—Design, Construction, Installation and Operation—Safety Requirements. |
| AS 1891 | Industrial Safety Belts and Harnesses. |

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| AS 1931 | High Voltage Testing Techniques
Part 1—General Definitions, Test Requirements, Test Procedures and Measuring Devices. |
| AS 2549 | Cranes—Glossary of Terms. |
| AS 2752 | Preferred Numbers and Their Use. |
| AS 3000 | SAA Wiring Rules. |
| SAE J920
Aug84 | Technical Publications for Off-road Work Machines. |

1.4 DEFINITIONS. For purposes of this Standard, the definitions given in AS 2549 apply.

1.5 DESIGN.

1.5.1 Basis of design. An elevating work platform shall be capable of hoisting, sustaining, and transporting the test loads specified in Clause 1.11, where applicable, and shall comply with the requirements of AS 1418.1, Section 5—Crane Structure, and Section 7—Crane Mechanisms, on the following basis:

- (a) Manually operated—strength and stability only.
- (b) Power-operated—
 - (i) strength;
 - (ii) stability; and
 - (iii) life (fatigue or wear or both).

1.5.2 Classification. The classification of an elevating work platform shall be selected from requirements set out in AS 1418.1, Section 2—Classification of Cranes.

1.5.3 Design for strength. ^{SEE AMENDMENT 1} The design for strength of an elevating work platform shall comply with the following applicable requirements:

- (a) Where the design of the load-supporting components is to be carried out by rational dynamic analysis the requirements of AS 1418.1, Section 3—Materials for Cranes, Section 4—Crane Loads, Section 5—Crane Structure and Section 7—Crane Mechanisms shall apply except that the hoisting factor (ψ) shall be modified by multiplication by the personnel loading factor (K_p) of value 1.2.

The design of manually operated motions may be based on static loading, i.e. the duty factors specified in AS 1418.1, Clauses 4.6 and 4.7 need not be applied.

- (b) Where the design of the load supporting components is to be carried out by a simplified method of analysis the load supporting components shall be designed with a structural safety factor of not