

Australian/New Zealand Standard®

Cranes—Safe use

Part 9: Vehicle hoists

AS/NZS 2550.9:1996

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ME/5, Cranes. It was approved on behalf of the Council of Standards Australia on 15 May 1996 and on behalf of the Council of Standards New Zealand on 14 May 1996. It was published on 5 August 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 & Industrial Relations, Qld
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Manufacturing and Retailing Interests
Motor Trade, New Zealand
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STANDARDS AUSTRALIA
1 The Crescent,
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STANDARDS NEW ZEALAND
Level 10, Standards House,
155 The Terrace,
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME/5 on Cranes to cover specific requirements for the safe use of vehicle hoists. It is intended for use in conjunction with AS 2550—1993, *Cranes—Safe use Part 1: General requirements*.

The AS 2550 series of Standards is intended to provide uniform requirements and guidance for the safe use of cranes, hoists and winches. The documents have no legal authority in their own right but may be —

- (a) adopted in legislation;
 - (b) called up in legislation as Codes of Practice;
 - (c) referenced as a contract requirement; and
 - (d) recognized as ‘available information’ or as the ‘State of Knowledge’ of the industry.
- Current legislation is adopting the principles of assessing hazard identification and formal risk assessment to ensure risk control and elimination. These principles or the philosophy should form the basis of all modern work practices or procedures.

This process cannot be successfully applied unless —

- (i) all of the relevant criteria are available; and
- (ii) the identification and assessment is based on all the information and experience necessary to arrive at the correct conclusion.

The work practices adopted should carry no more than an acceptable degree of risk or incorporate a sufficient factor of safety. Acceptable risk factors should reflect the community’s values and expectations. The object of this series of Standards is to provide the necessary information and guidance to allow the correct decisions to be made.

It is unlikely that any one person or organization will be in possession of all of the necessary information and experience to always arrive at the correct decision without having resource to a reference such as this series of Standards.

Emphasis has been placed on those requirements considered imperative by using ‘shall’, fully recognizing that the requirements may not be mandatory if called up as a code of practice. It is also recognized that there may be other ways of achieving risk elimination or control.

Published Standards in the series are:

AS

- 2550 Cranes—Safe use
- 2550.1 Part 1: General requirements
- 2550.4 Part 4: Tower cranes
- 2550.5 Part 5: Mobile and vehicle-loading cranes
- 2550.6 Part 6: Guided string and retrieving appliances
- 2550.7 Part 7: Builders’ hoists and associated equipment
- 2550.10 Part 10: Elevating work platforms
- 2550.15 Part 15: Concrete placing equipment

AS/NZ

- 2550.9 Part 9: Vehicle hoists (this Standard)

It is intended to publish the following parts:

- (a) Special purpose appliances.
- (b) Building maintenance units.
- (c) Mast climbing work platforms.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard**Cranes—Safe use****Part 9: Vehicle hoists**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies requirements for the safe use of vehicle hoists.

It is complementary to AS 2550.1, but the requirements given herein take precedence over the corresponding requirements in AS 2550.1.

NOTES:

- 1 Considerations for car stackers, parking machines, ramps, tow vehicles and their attachments are not included in this Standard.
- 2 Typical types of vehicle hoists are given in AS 1418.9.

1.2 APPLICATION This Standard shall apply to the safe use of vehicle hoists of the type specified in AS 1418.9. The requirements of AS 1418.9 shall apply and no requirements given herein shall circumvent the requirements of AS 1418.9.

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

AS

- 1418 Cranes (including hoists and winches)
- 1418.1 Part 1: General requirements
- 1418.9 Part 9: Vehicle hoists
- 2549 Cranes—Glossary of terms
- 2550 Cranes—Safe use
- 2550.1 Part 1: General requirements
- 2759 Steel wire rope—Application guide
- 3788 Boilers and pressure vessels—In-service inspection

BS

- 6570 Code of practice for the selection, care and maintenance of steel wire ropes

1.4 DEFINITIONS For the purpose of this Standard, the definitions given in AS 2549, AS 2550.1 and those below apply.

1.4.1 Hoist—the use of the word ‘hoist’ herein shall mean ‘vehicle hoists’ so far as is applicable to the text.

1.4.2 Management’s instructions—shall include the manufacturer’s latest instructions, recommendations and specifications. Where any of these instructions, recommendations and specifications are not available from the manufacturer, they shall be drawn up by a competent person.

S E C T I O N 2 P L A N N I N G

2.1 GENERAL The planning for selection and safe use of a hoist should commence as early as practicable in the development of a project.

Wherever practicable, the planning should include consultation with hoist manufacturers and suppliers, and vehicle manufacturers and suppliers as applicable.

2.2 CONSIDERATIONS Management's planning consideration shall include:

- (a) Full consideration of the range of vehicles to be hoisted. Such considerations shall include—
 - (i) maximum vehicle mass;
 - (ii) vehicle mass distribution (centres of gravity);
 - (iii) vehicle dimensions (maximum and minimum);
 - (iv) vehicle types;
 - (v) vehicle configurations; and
 - (vi) vehicle support point locations and loading variations.
- (b) Specifying the hoist requirements and hoist particulars.
- (c) The production of a hoist operating specification that is in conformance with the hoist which it is intended to install.