

AS 1418.8—1989

Australian Standard[®]

SAA Crane Code

Part 8: Special purpose appliances

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The following interests are represented on Committee ME/5:

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Australian Crane Marketers Association Inc.
Australian Institute of Building
Bureau of Steel Manufacturers of Australia
Confederation of Australian Industry
Construction Equipment Importers and Manufacturers of Australia
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Australian Standard®

**Cranes (including hoists and
winches) (known as the
SAA Crane Code)**

Part 8: Special purpose appliances

First published as AS 1418.8-1989.

PREFACE

This Standard was prepared by the Standards Australia Committee on Cranes as a new part of AS 1418, *SAA Crane Code*.

It covers specific requirements for special purpose appliances and is intended for use in conjunction with AS 1418.1, *General requirements*. However, requirements given herein take precedence over corresponding requirements of that Standard.

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STANDARDS AUSTRALIA

Australian Standard
Cranes (including hoists and winches)

Part 8: Special purpose appliances

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This Standard sets out requirements for special purpose appliances used for the hoisting of loads and personnel, as defined in AS 2549, but does not apply to builders hoists (AS 1418.7), guided storing and retrieving appliances (AS 1418.6), and vehicle hoists (AS 1418.9).

NOTES:

1. Guidance on information to be supplied with enquiry, order, tender or request for hire is given in Appendix A.
2. Guidance on selection and operation of special purpose appliances is given in AS 2550.8.

1.2 APPLICATION. Special purpose appliances shall comply with Sections 1 and 2, and with the following sections as applicable:

Section 3 Platform hoists.

Section 4 Tip truck hoisting systems.

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

1.3 TYPES.

1.3.1 Platform hoists. Platform hoists shall include—

- (a) tailgate hoists;
- (b) guided platform hoists serving two fixed levels only, laterally restrained by guides; and
- (c) unguided platform hoists serving two fixed levels only, with the lateral restraint provided by the hoist structure;

but shall not include wheelwinch hoists.

NOTE: Some Authorities may require an enclosure in some circumstances for equipment covered by Clauses 1.3.1(b) and 1.3.1(c).

1.3.2 Tip truck hoisting systems. Tip truck hoisting systems shall include—

- (a) hydraulically actuated systems;
- (b) pneumatically actuated systems; and
- (c) mechanically actuated systems.

1.4 REFERENCED DOCUMENTS. The documents below are referred to in this Standard.

- AS
1000.1 The International System of Units (SI) and its application

- 1057 Glossary of terms used in quality control
1101 Graphical symbols for general engineering
1101.1 Part 1: Hydraulic and pneumatic systems
1135 SAA Non-ferrous Pressure Piping Code
1210 SAA Unfired Pressure Vessels Code
1418 SAA Crane Code
1418.1 Part 1: General requirements
1418.6 Part 6: Guided storing and retrieving appliances
1418.7 Part 7: Builder's hoists and equipment
1418.9 Part 9: Vehicle hoists
1657 SAA Code for Fixed Platforms, Walkways, Stairways and Ladders
2019 Fluid power—Hydraulic and pneumatic cylinders—Bore and rod dimensions
2549 Cranes—Glossary of terms
2752 Preferred numbers and their use
AS 226 Hydraulic hose
AS 18 SAA Pressure Piping Code
CB18.1 Part 1: Ferrous piping

1.5 DEFINITIONS. For the purpose of this Standard, the definitions given in AS 2549 apply.

1.6 EXPRESSION OF PERFORMANCE.

1.6.1 Rating values. The nominal magnitude of the various performance characteristics of the appliance should comply with the R 10 series of preferred numbers specified in AS 2752, i.e. the following values and multiples of ten thereof should be used:

1.00	1.25	1.6	2.0	2.5
3.2	4.0	5.0	6.3	8.0

NOTE: The R 20 series of preferred numbers may be used in specific applications.

1.6.2 Load rating of appliance. The safe working load (hoisting) shall be expressed in tonnes or, for values less than 1 t, in kilograms.

1.6.3 Range of hoisting. The nominal range of hoisting shall be expressed in metres.

1.6.4 Working velocities. For power-operated appliances, the nominal working velocities shall be expressed in metres per second.