

AS 1418.7:2024



STANDARDS
Australia



Cranes, hoists and winches

Part 7: Builders' hoists and associated equipment

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Part 7: Builders' hoists and associated equipment

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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-005, Cranes, to supersede AS 1418.7:1999, *Cranes (including hoists and winches), Part 7: Builders' hoists and associated equipment*.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this document as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this document is to set out requirements for temporary hoists for use in the building industry.

The major changes in this edition are as follows:

- (a) Terms and definitions have been updated.
- (b) Rack and pinion inverter controlled hoist requirements have been added to [Section 2](#).
- (c) Multiple drive unit requirements have been added to [Section 2](#).
- (d) Multiple safety device requirements have been added to [Section 2](#).
- (e) Overload detection requirements have been updated in [Section 2](#).
- (f) Safety gear requirements have been updated in [Section 2](#).
- (g) [Section 3](#), outlining on site installation design requirements, has been added.
- (h) Wind design requirements have been added to [Section 2](#) and [3](#).
- (i) Cable trolley design requirements have been added in [Section 3](#).
- (j) Busbar design requirements have been added in [Section 3](#).
- (k) Hoist guarding requirements, including those in AS 2550.7, have been amalgamated to [Section 3](#).
- (l) Requirements for hoist pits have been changed from referring to AS 1735.2 to [Section 3](#).
- (m) Requirements for floor landing gates for materials hoists have been updated in [Section 4](#).
- (n) Hoist control requirements have been updated in [Sections 4](#) and [5](#).
- (o) Hoist communication requirements have been updated in [Section 5](#).
- (p) Appendices A, B and C, containing information to be supplied with tender, a list of typical hazards and requirements for wrought aluminium alloy ferrules, have been deleted.
- (q) The new [Appendix A](#), containing vertical pipe system information, has been added.

The terms “normative” and “informative” have been used in this document 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.

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1 Scope and general

1.1 Scope

This document sets out requirements for temporary hoists for use in the building industry. It does not apply to tower cranes (refer to AS 1418.4), mobile and vehicle loading cranes (refer to AS 1418.5), mining hoists, mast climbing work platforms (refer to AS 1418.16), rope-guided hoists, conveyors (refer to AS/NZS 4024.3610) or elevating work platforms (refer to AS 1418.10).

Guidance on the requirements for operation, inspection and maintenance to ensure the safe use of builders' hoists and associated equipment is given in AS 2550.7.

1.2 Application

Hoists shall conform to the general requirements for design in [Section 2](#) and [3](#) and to the specific requirements in [Section 4](#) for materials hoists, transport platforms, formwork hoists and concrete skip hoists or in [Section 5](#) for personnel and material hoists.

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

1.3 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document:

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS 1319, *Safety signs for the occupational environment*

AS 1418.1, *Cranes, hoists and winches, Part 1: General requirements*

AS 1418.4, *Cranes, hoists and winches, Part 4: Tower cranes*

AS 1418.5, *Cranes, hoists and winches, Part 5: Mobile cranes (EN 13000:2010, MOD)*

AS 1418.10, *Cranes, hoists and winches, Part 10: Mobile elevating work platforms*

AS 1418.16, *Cranes (including hoists and winches), Part 16: Mast climbing work platforms*

AS 1657, *Fixed platforms, walkways, stairways and ladders—Design, construction and installation*

AS 1735.3, *Lifts, escalators and moving walks, Part 3: Passenger and goods lifts—Electrohydraulic*

AS 1735.2, *Lifts, escalators and moving walks, Part 2: Passenger and goods lifts—Electric*

AS 2549, *Cranes, hoists and winches — Glossary of terms*

AS 2550.7, *Cranes—Safe use, Part 7: Builders' hoists and associated equipment*

AS 2671, *Hydraulic fluid power — General rules and safety requirements for systems and their components (ISO 4413:2010, MOD)*

AS 2759, *Steel wire rope—Use, operation and maintenance*