



Cranes, hoists and winches—Safe use

Part 15: Concrete placing equipment

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 - Australian Institute for Non-Destructive Testing
 - Cement Concrete & Aggregates Australia
 - Concrete Pumping Association of Australia
 - Crane Industry Council of Australia
 - Engineers Australia
 - SafeWork NSW
 - WorkSafe Victoria
-

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Australian Standard®

Cranes, hoists and winches — Safe use

Part 15: Concrete placing equipment

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PREFACE

This Standard was prepared by the Committee ME-091, Concrete Placing Equipment, to supersede AS 2550.15—1994 *Cranes—Safe use, Part 15: Concrete placing equipment*.

The objective of this Standard is to specify the requirements that apply to concrete placing equipment, which are not cranes used for lifting, but share some common structural, mechanical and electrical elements of cranes.

The objective of the AS 2550 series of Standards is to provide uniform requirements and guidance for the safe use of cranes, hoists and winches, some of which are relevant to concrete placing equipment.

This revision of AS 2550.15 resulted in a comprehensive update of the standard requirements, including the addition of contemporary methods and techniques to ensure concrete placing equipment safe use. The major changes in this revision are as follows:

- (a) General document-wide terminology use.
- (b) Expanded definitions for types of pumps, e.g. line pump, boom pump, satellite placing boom.
- (c) Amended definition for competent person(s).
- (d) Alignment with international standards for inspection and maintenance requirements.
- (e) Consequential amendments and alignment to AS 2550 series.

Published Standards in the series are:

AS

2550	Cranes, hoists and winches—Safe use
2550.1	Part 1: General requirements
2550.3	Part 3: Bridge, gantry, port (including container cranes) and jib cranes
2550.4	Part 4: Tower cranes
2550.5	Part 5: Mobile cranes
2550.6	Part 6: Guided storage and retrieving appliances
2550.7	Part 7: Builders' hoists and associated equipment
2550.10	Part 10: Mobile elevating work platforms
2550.11	Part 11: Vehicle-loading cranes
2550.13	Part 13: Building maintenance units
2550.15	Part 15: Concrete placing equipment (this Standard)
2550.16	Part 16: Mast climbing work platforms
2550.19	Part 19: Telescopic handlers
2550.20	Part 20: Self-erecting tower cranes

AS/NZS

2550.9	Part 9: Vehicle hoists
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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.

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Australian Standard
Cranes, hoists and winches—Safe use

Part 15: Concrete placing equipment

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for the safe use of concrete placing equipment. The design, construction, testing and associated specific requirements of concrete placing equipment are given in AS 1418.15 or DIN 24117.

This Standard is complementary to AS 2550.1 and accordingly requirements in this Standard take precedence over the corresponding requirements of AS 2550.1.

1.2 NORMATIVE REFERENCES

The following documents are referred to in this Standard:

AS

- | | |
|---------|---|
| 1418 | Cranes, hoists and winches |
| 1418.1 | Part 1: General requirements |
| 1418.15 | Part 15: Concrete placing equipment |
| 2452 | Non-destructive testing—Determination of thickness |
| 2452.3 | Part 3: Use of ultrasonic testing |
| 2549 | Cranes (including hoists and winches)—Glossary of terms |
| 2550 | Cranes, hoists and winches—Safe use |
| 2550.1 | Part 1: General requirements |

AS/NZS

- | | |
|--------|---|
| 1554 | Structural steel welding |
| 1554.1 | Part 1: Welding of steel structures |
| 3000 | Electrical installations (known as the Australian/New Zealand Wiring Rules) |
| 3012 | Electrical installations—Construction and demolition sites |

DIN

- | | |
|-------|---|
| 24117 | Construction equipment and building material machinery—Distributing mast for concrete pumps—Principles of calculation and stability |
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1.3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS 2549 and, AS 2550.1 shall apply. Concrete placing equipment, which does not include cranes used for lifting, do share some common structural, mechanical and electrical elements of cranes; however, where conflict arises between the definitions given in AS 2549 and AS 2550 the following definitions in this clause (1.3) take precedence.