

Australian Standard[®]

**Cranes (including hoists and
winches)**

**Part 17: Design and construction
of workboxes**

This Australian Standard was prepared by Committee ME/5, Cranes. It was approved on behalf of the Council of Standards Australia on 25 October 1995 and published on 5 March 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 and Industrial Relations, Qld
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME/5 on Cranes as AS 1418.17—1995, *Cranes (including hoists and winches)*, Part 17: *Design and construction of workboxes*. It has been introduced to fill a need in the workplace.

This Standard is a result of a consensus among representatives on the Joint Committee to produce it as an Australian Standard.

This Standard has been introduced in recognition that the practices involved in using workboxes are often inherently dangerous and this Standard sets out to expressly avoid failure of the workbox structure. Whilst the factors of safety introduced in the design of workboxes are of a nominal magnitude, the designer has been provided with the opportunity to increase the factors of safety in conformance with the intended future use of the workbox.

The introduction of this Standard may not be taken as recommending the use of workboxes and it is purposely restrictive to limit their application.

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

Australian Standard

Cranes (including hoists and winches)

Part 17: Design and construction of workboxes

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies the requirements relating to the design and construction of workboxes generally having one working deck level, to accommodate a maximum of three persons. Refer to [AS 2550.1](#) for the requirements for the safe use of workboxes.

NOTE: Typical workbox details are given in Figures A1 and A2 of Appendix A.

1.2 APPLICATION

1.2.1 General This Standard shall apply to workboxes used for conveying personnel with tools and work material to a work location by crane.

NOTE: Workboxes should only be used where other means of access are unsafe or impracticable.

1.2.2 Limitations Workboxes shall be designed only for use of personnel with the minimum tools and materials required to perform the necessary work.

NOTES:

- 1 Workboxes should not be used as transportation for personnel or bulk materials or for the removal of debris or scrap.
- 2 Workboxes intended to accommodate more than three people should be designed from first principles.

1.2.3 Regulations Workboxes should be in conformance with the statutory regulations that are applicable at the date of design registration.

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

AS

- | | |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1318 | Use of colour for the marking of physical hazards and the identification of certain equipment in industry (known as the SAA Industrial Safety Colour Code) |
| 1418 | Cranes (including hoists and winches) |
| 1418.1 | Part 1: General requirements |
| 1657 | Fixed platforms, walkways, stairways and ladders—Design, construction and installation |
| 2549 | Cranes—Glossary of Terms |
| 2550 | Cranes—Safe use |
| 2550.1 | Part 1: General requirements |



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