

Australian Standard™

Conveyors—Safety requirements



Standards Australia

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Bureau of Steel Manufacturers of Australia
Department of Employment Education and Training
Department of Mineral Resources, N.S.W.
Department of Training and Industrial Relations, Qld
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Conveyors— Safety requirements

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PREFACE

This Standard is the result of consensus among representatives of the Standards Australia Committee SF/25, Guarding of Conveyors and Joint Standards Australia/Standards New Zealand Committee EL/23, Electrical Equipment in Coal Mines to prepare it as an Australian Standard. It supersedes AS 1755—1986, Conveyors—Design, construction, installation and operation—Safety requirements. It contains the safety measures to be implemented for the installation and operation of conveyors and conveyor systems, both above ground and underground and sets out the necessary personal protective measures against hazards experienced by operators of such plant.

The changes included in this Standard cover the general safety requirements for large and small conveyors and conveyor systems, and in particular the details for conveyor control and motor drive isolation. Technical and editorial amendments have been incorporated in line with available ISO documentation for mechanical handling equipment.

Major changes made in this edition include—

- (a) clarification that the Standard is applicable to both above ground and underground conveyor systems;
- (b) adding a Section dealing with requirements for specific applications, notably underground coal mines; and
- (c) adding, as an appendix, ergonomic data.

The term ‘normative’ has 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.

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STANDARDS AUSTRALIA

Australian Standard
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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out the minimum safety requirements for the design, installation and guarding of conveyors and conveyor systems. It includes requirements for users and providers of inspection, maintenance, training and implementation of safe work practices for such equipment. Particular emphasis is given to operational safety and the protection afforded to operators, maintenance personnel or other persons who may be exposed to risks to health and safety associated with conveyors or conveyor systems.

This Standard includes requirements for—

- (a) specific locations such as hazardous areas, confined spaces and coal mines; and
- (b) specific types such as belt conveyors and mobile or transportable conveyors.

The Standard is not intended to apply to platform elevators, moving stairways or conveyors specifically designed for the conveyance of people.

A glossary of conveyor terms is provided in Appendix A.

1.2 OBJECTIVE

The objective of this Standard is to enable designers, manufacturers, suppliers, employers and users of conveyors and conveyor systems to minimize the risks to health and safety where conveyors are used.

1.3 APPLICATION

The requirements of this Standard are intended to be used by designers, manufacturers, suppliers, installers, users and owners of conveyors or conveyor systems.

The requirements of this Standard shall apply to all conveyors or conveyor systems installed or reinstalled following the publication date of this Standard. This provision need not apply where a contract for the supply and installation of a conveyor or conveyor system has been entered into prior to that time.

Where a risk assessment is required by this Standard, the requirements of AS 4024.1, AS/NZS 3931 and AS/NZS 4360 or equivalent Standards shall be followed.

Alternative methods of providing safety based on risk assessment in accordance with AS 4024.1, AS/NZS 3931 and AS/NZS 4360 may be used provided that the level of safety offered by the alternatives is at least equivalent to that provided by the methods given in this Standard.

In addition to the requirements of this Standard, there may be other requirements set by the regulatory authority. Users of this Standard should therefore make themselves aware of any specific requirements in the jurisdiction where the conveyor or conveyor system will be used.