



## Passenger ropeways and passenger conveyors



This Australian Standard® was prepared by Committee ME-051, Amusement Rides and Devices. It was approved on behalf of the Council of Standards Australia on 25 September 2018.

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The following are represented on Committee ME-051:

- Attorney-General's Department South Australia
  - Australian Amusement Association
  - Australian Amusement Leisure and Recreation Association
  - Australian Ski Area Association
  - Consumers Federation of Australia
  - Department of Justice and Attorney General, Qld
  - Engineers Australia
  - Institution of Professional Engineers New Zealand
  - Kidsafe
  - Local Government New Zealand
  - Safety Institute of Australia
  - SafeWork NSW
  - Showmens Guild of Australasia
  - Worksafe Division, Department of Commerce, Western Australia
  - WorkSafe New Zealand
  - WorkSafe Victoria
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard®

## Passenger ropeways and passenger conveyors

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## PREFACE

This Standard was prepared by Committee ME-051, Amusement Rides and Devices, to supersede AS 4722—2009.

The objective of this Standard is to provide designers, manufacturers, proprietors, inspectors and operating staff with requirements and guidance specific to the design, construction, operation, inspection, testing and maintenance of passenger ropeways and passenger conveyors that will protect the health and safety of both operating staff and patrons of these devices.

This Standard references and modifies the requirements of Canadian Standards Association publication CSA Z98-14, *Passenger ropeways and passenger conveyors*. The Canadian Standard has historically been used for requirements for passenger ropeways in Australia. The Subcommittee has kept Australian variations to this Standard to a minimum and has informed the relevant Canadian committee of these so they can be considered for incorporation in a future edition of CSA Z98.

It should be noted that conformance to this Standard alone does not necessarily ensure that all legal obligations are being fulfilled.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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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## FOREWORD

At present, various persons have been assigned a duty of care in the general work health and safety (WHS) legislation in Australia. This Foreword indicates how these duties can generally be interpreted and may provide an understanding of the basis for the requirements in this Standard.

Under WHS legislation, employers have a duty to ensure the safety of their employees and other people at the workplace. The operator of a passenger ropeway or conveyor has a duty to ensure that participants and others present are not exposed to risks arising from the activities. This duty includes conducting a risk assessment of the facility and its operation to consider foreseeable risks to employees, participants and others, and to implement measures to eliminate or control such risks.

Designers, manufacturers and suppliers of the structure and equipment also have duties to ensure the plant and equipment is safe and without risk when used. Additionally they need to provide information that is necessary to enable the plant to be properly used and maintained.

While this is a broad summary of the applicable legislation, readers should make themselves aware of the legislation in their jurisdiction.

## STANDARDS AUSTRALIA

### Australian Standard

## Passenger ropeways and passenger conveyors

### 1 SCOPE

This Standard sets out requirements and guidance for the design, construction, operation, inspection, testing and maintenance of passenger ropeways and passenger conveyors within the scope of CSA Z98-14. It covers ropeways used for transport, snowfields and those used as amusement rides.

### 2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1012	Methods of testing concrete (series)
1065	Non-destructive testing—Ultrasonic testing of carbon and low alloy steel forgings
1171	Non-destructive testing—Magnetic particle testing of ferromagnetic products, components and structures
1394	Round steel wire for ropes
1403	Design of rotating steel shafts
1657	Fixed platforms, walkways, stairways and ladders—Design, construction and installation
1710	Non-destructive testing—Ultrasonic testing of carbon and low alloy steel plate and universal sections—Test methods and quality classification
1796	Certification of welders and welding supervisors
1940	The storage and handling of flammable and combustible liquids
2062	Non-destructive testing—Penetrant testing of products and components
2076	Wire-rope grips for non-lifting applications
2084	Non-destructive testing—Eddy current testing of metal tubes
2177	Non-destructive testing—Radiography of welded butt joints in metal
2207	Non-destructive testing—Ultrasonic testing of fusion welded joints in carbon and low alloy steel
2214	Certification of welding supervisors—Structural steel welding
2321	Short-link chain for lifting purposes
2342	Development, testing and implementation of information and safety symbols and symbolic signs
2452	Non-destructive testing—Determination of thickness
2452.1	Part 1: Determination of wall thickness of pipe by the use of radiography
2452.3	Part 3: Use of ultrasonic testing