

Australian Standard<sup>®</sup>

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**Underground mining—Shaft  
equipment**

**Part 8: Personnel conveyances  
in other than vertical shafts**

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This Australian Standard was prepared by Committee ME/18, Mining Equipment. It was approved on behalf of the Council of Standards Australia on 7 March 1994 and published on 16 May 1994.

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The following interests are represented on Committee ME/18:

Australasian Institute of Mining and Metallurgy  
Australian Chamber of Commerce and Industry  
Australian Coal Association  
Australian Mining Industry Council  
Bureau of Steel Manufacturers of Australia  
Chamber of Mines of Western Australia  
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Department of Mineral Resources, N.S.W.  
Department of Minerals and Energy, Qld.  
Department of Minerals and Energy, W.A.  
Department of Mines, Tas.  
Institution of Engineers, Australia  
Institution of Mining Electrical and Mining Mechanical Engineers  
New South Wales Coal Association  
Queensland Coal Association  
Queensland Mining Council  
South Australian Chamber of Mines  
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Additional interests participating in preparation of Standard:

Mining companies  
Mining consultants  
Mining equipment manufacturers and suppliers

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First published as AS 3785.8—1994.

## PREFACE

This Standard was prepared by the Standards Australia Committee on Mining Equipment. It is one of a series of Standards on shaft equipment for underground mines. The other Standards in the series are as follows:

## AS

- 3785 Underground mining—Shaft equipment
- 3785.1 Part 1: Drum winding overwind safety catch systems
- 3785.2 Part 2: Friction winding arresting systems
- 3785.3 Part 3: Drum winding gripper systems
- 3785.4 Part 4: Conveyances for vertical shafts
- 3785.5 Part 5: Headframes
- 3785.6 Part 6: Guides and rubbing ropes for conveyances
- 3785.7 Part 7: Sheaves

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****Underground mining—Shaft equipment****Part 8: Personnel conveyances in other than vertical shafts**

**1 SCOPE** This Standard specifies requirements for personnel conveyances used in shafts which do not exceed a gradient of 1 in 3.

NOTE: Information to be provided by the purchaser and by the supplier is given in Appendices A and B, respectively.

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

**AS**

- 1554 Structural steel welding
- 1554.1 Part 1: Welding of steel structures
- 1554.4 Part 4: Welding of high strength quenched and tempered steels
- 1554.5 Part 5: Welding of steel structures subject to high levels of fatigue loading
- 1710 Non-destructive testing of carbon and low alloy steel plate—Test methods and quality classification
- 2012 Acoustics—Measurement of airborne noise emitted by earth-moving machinery and agricultural tractors—Stationary test condition
- 2012.2 Part 2: Operator's position
- 2080 Safety glass for land vehicles
- 2595 Electrical equipment for coal mines—Electrical requirements for underground mining machines and accessories
- 2953 Earth-moving machinery—Human dimensions
- 2953.2 Part 2: Physical dimensions of operators and minimum operator space envelope
- 3637 Underground mining—Winding suspension equipment
- 3637.1 Part 1: General requirements
- 3637.3 Part 3: Rope cappings
- 3637.4 Part 4: Drawbars and connecting links
- 3670 Non-destructive testing—Ultrasonic testing of universal beams and columns
- 3751 Underground mining—Slope haulage—Couplings, drawbars, and safety chains
- 3990 Mechanical equipment—Steelwork
- 4100 Steel structures

**3 DEFINITIONS** For the purposes of this Standard the definitions below apply.

**3.1 Approved**—approved by a statutory authority.

**3.2 Attachments**—an assembly of components used to connect—

- (a) the haulage rope of the permanent main load-bearing component of the conveyance;
- or