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AS/NZS 3785.6:2015

Australian/New Zealand Standard™

Underground mining—Shaft equipment

Part 6: Fixed guides, rope guides and rubbing ropes for conveyances

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The following are represented on Committee ME-018:

Australasian Institute of Mining and Metallurgy
Australian Chamber of Commerce and Industry
Australian Industry Group
Construction and Mining Equipment Industry Group
Department of Mines and Petroleum, WA
Department of Natural Resources and Mines, Qld
Department of Trade and Investment, NSW
Engineers Australia
Minerals Council of Australia
Mining Electrical and Mining Mechanical Engineering Society
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-018, Mining Equipment, to supersede AS 3785.6—1992, *Underground mining—Shaft equipment*, Part 6: *Guides and rubbing ropes for conveyances*.

This Standard is one of a series on shaft equipment for underground mines. The other Standards in the series are as follows:

AS(/NZS)
3785 Underground mining—Shaft equipment
3785.1 Part 1: Shaft overwind safety catch system
3785.2 Part 2: Shaft winding arresting systems
3785.3 Part 3: Drum winding gripper systems
3785.4 Part 4: Conveyances for vertical shafts
3785.5 Part 5: Headframes
3785.7 Part 7: Sheaves
3785.8 Part 8: Personnel conveyances in other than vertical shafts

The objective of this Standard is to provide designers, manufacturers and users with a clear specification for the design, manufacture and maintenance of conveyance guidance systems for vertical mine shafts.

The objective of this revision is to—

(a) update references and design criteria;

(b) foster a move away from static to dynamic design criteria; and

(c) provide a comprehensive dynamic design method that is heavily reliant on modern computational methods.

This Standard includes material that is adapted from—

(i) SANS 10208-4, Ed. 2 (2011), *Design of Structures for the Mining Industry*, Part 4: *Shaft System Structures*; and

(ii) SANS 10208-3, Ed. 3 (2012), *Design of Structures for the Mining Industry*, Part 3: *Conveyances*,

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The principal differences between this and the previous edition are as follows:

(A) Introduction of dynamic analysis methods for design calculations.

(B) Graphs clarified to make interpolation easier.

(C) Wording revised and expanded to provide clearer explanation to users.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is for information and guidance only.

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