



## **Earth-moving machinery—Access systems (ISO 2867:2011, MOD)**



This Australian Standard® was prepared by Committee ME-063, Earthmoving Equipment. It was approved on behalf of the Council of Standards Australia on 5 July 2019. This Standard was published on 29 July 2019.

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The following are represented on Committee ME-063:

- Australian Industry Group
  - Construction and Mining Equipment Industry Group
  - Department of Natural Resources, Mines and Energy (Qld)
  - Institute of Instrumentation, Control and Automation Australia
  - Minerals Council of Australia
  - Mining Electrical and Mining Mechanical Engineering Society
  - NSW Department of Planning and Environment
  - SafeWork NSW
  - University of Queensland
- 

This Standard was issued in draft form for comment as DR AS 5327:2018.

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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AS 5327:2019

Australian Standard<sup>®</sup>

# **Earth-moving machinery—Access systems (ISO 2867:2011, MOD)**

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## PREFACE

This Standard was prepared by the Standards Australia Committee ME-063, Earthmoving Equipment, to supersede AS 3868—1991, *Earth-moving machinery—Design guide for access systems*.

The objective of this Standard is to specify criteria for systems that provide access to the operator station and to routine maintenance points on earth-moving machinery as defined in ISO 6165. It is applicable to the access systems (e.g. enclosure openings, platforms, guardrails, handrails and handholds, stairways and steps, ladders) on such machines parked in accordance with the manufacturer's instructions. Its criteria are based on the 5th to 95th percentile operator dimensions as defined in ISO 3411. It deals with the following significant hazards, hazardous situations and events: slip, trip and fall of persons, unhealthy postures and excessive effort.

This Standard is an adoption with national modifications, and has been reproduced from, ISO 2867:2011, *Earth-moving machinery — Access systems*. The modifications set out in Appendix ZZ are additional requirements, which have been added at the end of the source text.

Appendix ZZ lists the variations to ISO 2867:2011 for the application of this Standard in Australia.

The major changes in this edition are as follows:

- (a) Additions to general requirements for access systems (see Clause 4.1).
- (b) Guidance on 400 mm first step height and the design philosophy hierarchy where this is not practicable (see Clause 4.1 and Table 6).
- (c) Clarity on the hierarchy for choice of types of access systems (see Clause 4.1).
- (d) Additional clarity for alternative exit paths (see Clause 4.3).
- (e) Recommending against the use of chains and cables, and guidance on hinged gates and foot barriers (see Clause 6.2).
- (f) Amendments to guidance on provision of guardrails at certain heights from the ground (see Clause 6.2).
- (g) Guidance on design of steps, step nosing and transitions between ladders to platforms (see Clause 8.2).

As this document has been reproduced from an International Standard, the following applies:

- (i) In the source text “this International Standard” should read “this Australian Standard”.
- (ii) A full point substitutes for a comma when referring to a decimal marker.

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The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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