

Australian Standard[®]

**Powered doors for pedestrian access
and egress**



This Australian Standard® was prepared by Committee BD-055, Powered Pedestrian Door Assemblies. It was approved on behalf of the Council of Standards Australia on 20 June 2007.

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The following are represented on Committee BD-055:

- Association of Consultants in Access Australia
 - Australian Auto-Door Industry Forum
 - Australian Industry Group
 - Australian Shop and Office Fitting Industry Association
 - Australian Specialist Contractors Association
 - Glass and Aluminium Association of Queensland
 - Master Builders Australia
-

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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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Powered doors for pedestrian access and egress

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PREFACE

This Standard was prepared by the Standards Australia Committee BD-055, Powered revolving door assemblies and supersedes AS 4085—1992, *Automatic sliding door assemblies* and AS 4290—2000, *Design and installation of revolving doors*. During the preparation of this Standard the Committee considered work emanating from the European Community (CEN). Since many European Standards are becoming de facto international Standards, or are being adopted as International Standards by ISO, the Committee decided to use the draft European Standard as the basis for this revision.

The objective of this edition is to standardize the design, installation, test and safety requirements of all automatic pedestrian door assemblies; to include changes that reflect recent advances in technology and to refine content for clarity and conciseness.

The terms ‘normative’ and ‘informative’ have 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, whereas an ‘informative’ appendix is only for information and guidance.

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

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STANDARDS AUSTRALIA

Australian Standard **Powered doors for pedestrian access and egress**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out the requirements for design and test methods for drive units, leaves and components of powered pedestrian doors. Such door constructions may be operated electro-mechanically, electro-hydraulically or pneumatically.

This Standard also provides requirements for design of the installation, verification/testing, marking and commissioning of the complete powered pedestrian door installation.

This Standard does not apply to the following:

- (a) Powered doors where the door leaves move vertically.
- (b) Powered doors mainly intended for vehicular traffic or access for goods.
- (c) Powered pedestrian gates or barriers.
- (d) Powered pedestrian turnstiles.
- (e) Powered doors used on lifts.
- (f) Power operated in environments where there is risk of explosion.

1.2 APPLICATION

This Standard applies to all powered pedestrian doors used in all types of buildings as classified in the BCA and other building legislation as appropriate. Doors can be of sliding, folding, swing and revolving type with a horizontally moved leaf.

Powered pedestrian doors can be used in all types of entrances including escape or rescue routes and emergency exits, as well as on smoke and fire doors.

Powered pedestrian doors with specific security needs to override the requirements of this Standard. Refer to Clause 3.3.4 for specialized operations.

Compliance with this Standard does not in any way preclude the use of any alternative solution which can be shown to satisfy the requirements.

1.3 REFERENCED DOCUMENTS

The normative documents referenced in this Standard are listed in Appendix A.

Documents referenced for informative purposes are listed in Appendix G.

1.4 DEFINITIONS

For the purpose of this Standard the following definitions apply:

1.4.1 Activation devices

A device which gives a signal to the control system.

Activation devices are subdivided into:

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