

Australian Standard™

**Emergency escape lighting and exit
signs for buildings**

**Part 3: Emergency escape luminaires
and exit signs**

This Australian Standard was prepared by Committee LG-007, Emergency lighting in buildings. It was approved on behalf of the Council of Standards Australia on 16 March 2005. This Standard was published on 12 May 2005.

The following are represented on Committee LG-007:

Association of Consulting Engineers Australia
Australian Building Codes Board
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Building Industry Authority NZ
Business New Zealand
Department of Commerce (NSW)
IES: The Lighting Society
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Emergency escape lighting and exit signs for buildings

Part 3: Emergency escape luminaires and exit signs

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee LG-007, Emergency Lighting in Buildings, to supersede AS/NZS 2293.3:1995 *Emergency evacuation lighting for buildings, Part 3: Emergency luminaires and exit signs*. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

The AS (/NZS) 2293 series comprises three Parts as follows:

AS(/NZS)

- 2293 Emergency escape lighting and exit signs for buildings
- 2293.1 Part 1: System design, installation and operation
- 2293.2 Part 2: Inspection and maintenance
- 2293.3 Part 3: Emergency escape luminaires and exit signs (this Standard)

The objective of the AS 2293 series of Standards is to provide all those associated with the design, construction, installation, certification and maintenance of all the individual components of an emergency escape lighting and exit signage scheme, and the scheme as a whole, with the requirements and guidelines to provide an installation that will ensure an acceptable level of illumination to the nominated areas for the safe evacuation of occupants from those areas in an emergency situation.

The objective of this Standard is to provide designers, manufacturers and certifiers of emergency escape luminaires and exit signs with the relevant requirements for such products in order to facilitate the production of luminaires that will provide an acceptable level of emergency escape lighting to a space when installed in compliance with AS 2293.1.

The principal reason for this edition of the Standard is to specify requirements for exit signs employing internationally accepted pictorial elements instead of the previously used word 'Exit'. Also, the basic terminology used to describe the subject matter of the Standard has been modified to be compatible with that used in IEC 60598-2-22 *Luminaires, Part 2-22: Particular requirements—Luminaires for emergency lighting*. The terminology now used, and reflected in the new series title, recognizes the term emergency lighting as including four categories of lighting, each provided with an alternative energy supply, as follows:

- (a) Emergency escape lighting.
- (b) Illuminated emergency exit signs.
- (c) High risk task area lighting.
- (d) Standby lighting.

Of these categories, items (a) and (b) are the newly adopted terms that refer to the two types of emergency lighting that are required by law in Australia and comprise the scope of the AS 2293 series of Standards. Items (c) and (d) are types of lighting that have a limited history in this country and which are not covered by this series of Standards.

This Standard incorporates the following significant changes from the previous edition:

- (i) Replacement of word 'exit' with pictorial element.
- (ii) As this Standard is not a joint Australian/New Zealand document, there is no content specific to New Zealand only.
- (iii) The adoption of terminology from IEC 60598-2-22.

Electronic files of all basic pictorial elements are grouped under the heading ‘Image files for exit signs specified in AS 2293.3’ and attached to this document as a CD Rom in the case of a paper copy of the Standard and as a zip file in the case of an electronic copy. These files reproduce the contents of Figure 3.1 in a form suitable for directly creating complying pictorial elements over a range of sizes. It should be noted these files are provided as an assistance to the user only and do not form part of this Standard.

It is anticipated that, within the life of this publication, the approval and test specification for luminaires – AS 3137, will be superseded and replaced by a new Standard designated AS/NZS 60598.2.22.

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.

This Standard distinguishes between documents cited as normative references and those referenced for information only. Those belonging to the former category are listed in the clause titled ‘Normative references’ while those of the latter type are listed in the bibliography.

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STANDARDS AUSTRALIA

Australian Standard

Emergency escape lighting and exit signs for buildings**Part 3: Emergency escape luminaires and exit signs**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for the design, construction, performance and testing of emergency escape luminaires and exit signs. It applies both to emergency escape luminaires and exit signs that are centrally supplied, and to emergency escape luminaires and exit signs of the self-contained type.

NOTES:

- 1 Appendix A lists the essential data and preferred format of test reports for emergency escape luminaires and exit signs.
- 2 A sample declaration of the compliance of emergency escape luminaires and exit signs with this Standard is given in Appendix B.

1.2 APPLICATION

It is anticipated that this Standard will be indirectly referenced, via a direct reference to AS 2293.1 in the May 2006 edition of the Building Code of Australia, thereby superseding the previous edition from the AS/NZS 2293 series.

1.3 NORMATIVE REFERENCES

The following referenced documents are indispensable for the application of this document.

AS(NZS)

- | | |
|---------|--|
| 2293 | Emergency escape lighting and exit signs for buildings |
| 2293.1 | Part 1: System design, installation and operation |
| 2293.2 | Part 2: Inspection and maintenance |
| 3100 | Approval and test specification—General requirements for electrical equipment |
| 3137 | Approval and test specification—Luminaires (light fittings) |
| 60598 | Luminaires |
| 60598.1 | Part 1: General requirements and tests |
| IEC | |
| 61951 | Secondary cells and batteries containing alkaline or other non-acid electrolytes—Portable sealed rechargeable single cells |
| 61951-1 | Part 1: Nickel-cadmium |
| 61056 | General purpose lead-acid batteries (valve-regulated types) |
| 61056-1 | Part 1: General requirements, functional characteristics—Methods of test |

ISO

- | | |
|--------|---|
| 3864 | Safety colours and safety signs |
| 3864-1 | Part 1: Design principles for safety signs in workplaces and public areas |

1.4 DEFINITIONS**1.4.1 General**

For the purpose of this Standard, the definitions given in AS 2293.1 and those below apply.



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