

Australian/New Zealand Standard

**Emergency evacuation lighting
for buildings**

Part 2: Inspection and maintenance

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee LG/7, Emergency Lighting in Buildings. It was approved on behalf of the Council of Standards Australia on 31 May 1995 and on behalf of the Council of Standards New Zealand on 29 May 1995. It was published on 5 September 1995.

The following interests are represented on Committee LG/7:

Administrative Services Department, Queensland
Association of Consulting Engineers Australia
Australian Building Codes Board
Australian Construction Services—Department of Administrative Services
Australian Electrical and Electronic Manufacturers Association
Australian Institute of Building Surveyors
Building Industry Authority, New Zealand
Building Management Authority of Western Australia
Building Owners and Managers Association of Australia
Department of Housing and Urban Development, South Australia
Department of Planning and Development, Victoria
Electricity Supply Association of Australia
Illuminating Engineering Society of Australia and New Zealand
National Electrical Contractors Association of Australia
New South Wales Fire Brigades
New South Wales Public Works
New Zealand Electrical Regulatory Authorities
New Zealand Manufacturers Federation
WorkCover Authority of New South Wales

Review of Standards. To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

Australian/New Zealand Standard

Emergency evacuation lighting for buildings

Part 2: Inspection and maintenance

PUBLISHED JOINTLY BY:

STANDARDS AUSTRALIA
1 The Crescent,
Homebush NSW 2140 Australia

STANDARDS NEW ZEALAND
Level 10, Radio New Zealand House,
155 The Terrace,
Wellington 6001 New Zealand

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee LG/7, Emergency Lighting in Buildings, to supersede AS 2293.2—1987* and, in part, NZS 6742:1971†.

The Standard sets out requirements for the periodic inspection and maintenance procedures which should be instituted for emergency evacuation lighting systems. The objective of these requirements is to ensure that such lighting systems will be in a state of readiness for operation at all times.

The changes in this edition are primarily a consequence of alterations made in AS/NZS 2293.1—1995‡. The following changes of significance have been introduced:

- (a) New procedures are specified for the monitoring of emergency lighting systems which are provided with automatic discharge test facilities (see Clauses 2.2.7.2, 2.3.7.2 and 3.2.2.2).
- (b) A requirement has been added for a visual check on an annual basis to ensure that emergency luminaires and exit signs operate in correct relationship to the normal lighting in the designated area (see Clauses 2.3.6(c) and 3.3(c)).
- (c) For indirect emergency lighting systems, a check is required of the aiming of emergency luminaires of the directional beam type (see Clauses 2.2.6 and 3.2.3).
- (d) For central systems which reticulate d.c., a new requirement is specified for measurement of the maximum voltage during boost charging, where applicable (see Clause 2.3.7.1).

Attention is drawn to the guidance given in AS 2676.1§ and AS 2676.2§ in relation to the maintenance of batteries used in central systems. Provision has been made for the maintenance of battery systems which is carried out in accordance with AS 2676.1 or AS 2676.2 to be accepted in lieu of the comparable requirements of this Standard (see Clause 2.1).

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.

* AS 2293.2—1987 Emergency evacuation lighting in buildings

Part 2: Inspection and maintenance

† NZS 6742:1971 Code of practice for emergency lighting in buildings

‡ AS/NZS 2293.1—1995 Emergency evacuation lighting for buildings

Part 1: System design, installation and operation

§ AS 2676 Guide to the installation, maintenance, testing and replacement of secondary batteries in buildings

AS 2676.1 Part 1: Vented cells

AS 2676.2 Part 2: Sealed cells

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	4
1.2 REFERENCED DOCUMENTS	4
1.3 DEFINITIONS	4
1.4 GENERAL REQUIREMENTS	4
 SECTION 2 INSPECTION AND MAINTENANCE PROCEDURES FOR CENTRAL SYSTEMS	
2.1 REQUIRED PROCEDURES	6
2.2 SIX-MONTHLY PROCEDURES	6
2.3 TWELVE-MONTHLY PROCEDURES	8
 SECTION 3 INSPECTION AND MAINTENANCE PROCEDURES FOR SINGLE-POINT SYSTEMS	
3.1 REQUIRED PROCEDURES	10
3.2 SIX-MONTHLY PROCEDURES	10
3.3 TWELVE-MONTHLY PROCEDURES	11
3.4 BATTERY REPLACEMENT	11
 APPENDICES	
A INFORMATION TO FACILITATE THE MAINTENANCE OF BATTERIES AND BATTERY CHARGERS	12
B CLEANING OF EMERGENCY LUMINAIRES AND EXIT SIGNS	13

Originated in Australia as AS 2293.2—1979.
Previous edition 1987.
Originated in New Zealand as part of NZS 6742:1971.
AS 2293.2—1987 and part of NZS 6742:1971 jointly
revised and designated AS/NZS 2293.2:1995.

Incorporating:
Amdt 1—1998

© Copyright — STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Users of Standards are reminded that copyright subsists in all Standards Australia and Standards New Zealand publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia or Standards New Zealand may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia or Standards New Zealand. Permission may be conditional on an appropriate royalty payment. Australian requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia. New Zealand requests should be directed to Standards New Zealand.

Up to 10 percent of the technical content pages of a Standard may be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia or Standards New Zealand.

Inclusion of copyright material in computer software programs is also permitted without royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia or Standards New Zealand at any time.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard
Emergency evacuation lighting for buildings**Part 2: Inspection and maintenance**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard sets out the periodic inspection and maintenance procedures which are necessary to ensure that emergency evacuation lighting systems will be in a state of readiness for operation at all times. It applies to central and single-point emergency lighting systems, as defined in AS/NZS 2293.1.

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

AS

1042 Direct-acting indicating electrical measuring instruments and their accessories

1680 Interior lighting

1680.1 Part 1: General principles and recommendations

2668 Water for use in secondary batteries

2676 Guide to the installation, maintenance, testing and replacement of secondary batteries in buildings

2676.1 Part 1: Vented cells

2676.2 Part 2: Sealed cells

AS/NZS

2293 Emergency evacuation lighting for buildings

2293.1 Part 1: System design, installation and operation

1.3 DEFINITIONS For the purpose of this Standard, the definitions given in AS/NZS 2293.1 apply.

1.4 GENERAL REQUIREMENTS

1.4.1 Maintenance of the installation Emergency evacuation lighting systems shall be inspected and maintained in accordance with the relevant procedures specified in this Standard. The inspection and maintenance procedures shall be carried out only by persons having qualifications and experience suitable for the work on which they are engaged.

NOTE: Section 7 of AS/NZS 2293.1 specifies the provision of an operating and maintenance manual to assist in conducting the inspection and maintenance checks required by this Standard. It requires that the information listed in Appendix A of this Standard be included in the manual for the guidance of maintenance personnel.

1.4.2 Maintenance records A logbook in a durable hard-bound cover, or an alternative system approved by the regulatory authority, shall be provided for the recording of maintenance information. The following details shall be entered:

- (a) All details which are required to be logged in accordance with Section 2 or Section 3, as appropriate.
- (b) Any corrective action taken.



SAI GLOBAL

This is a free 6 page sample. Access the full version online.

The remainder of this document
is available for purchase online at

www.saiglobal.com/shop

SAI Global also carries a wide range of publications from a wide variety of Standards Publishers:



Click on the logos to search the database online.