

AS 2834—1995

Australian Standard[®]

Computer accommodation

This Australian Standard was prepared by Committee IT/2, Computer Installations. It was approved on behalf of the Council of Standards Australia on 9 May 1995 and published on 5 August 1995.

The following interests are represented on Committee IT/2:

Air-conditioning and Refrigeration Equipment Manufacturers Association of Australia
Australian Bankers Association
Australian Construction Services
Australian Fire Authorities Council
Australian Information Industry Association
Australian Institute of Refrigeration, Air-conditioning and Heating
Commonwealth Fire Board
Electricity Supply Association of Australia
National Library of Australia

Review of Australian Standards. To keep abreast of progress in industry, Australian 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 Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

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

This Standard was issued in draft form for comment as DR 93223.

AS 2834—1995

Australian Standard[®]

Computer accommodation

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 9834 4

PREFACE

This Standard was prepared by the Standards Australia Committee IT/2 on Computer Installations to supersede AS 2834—1985.

This Standard is based on the requirements of computer technology at the time of preparation. However, it is recognized that this technology is rapidly changing and the requirements in this Standard may be subject to further development.

The objective of this Standard is to provide a guide to requirements for the accommodation of computer equipment. The wide diversity of equipment configurations possible and the way in which these alter to meet changing technology or system demands make it very difficult to create a simple Standard which is universally applicable. This Standard contains many recommendations which should be understood fully by both user and supplier so that early agreement can be reached on requirements for the specific installation being considered.

© Copyright — STANDARDS AUSTRALIA

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

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

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no 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 at any time.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND APPLICATION	
1.1 SCOPE	4
1.2 APPLICATION	4
1.3 REFERENCED AND RELATED DOCUMENTS	4
1.4 DEFINITIONS	6
1.5 CLASSIFICATION OF ENVIRONMENT TYPES	9
1.6 DOCUMENTATION	9
SECTION 2 ENVIRONMENTAL REQUIREMENTS	
2.1 FLOORS	10
2.2 WALLS	11
2.3 CEILINGS	11
2.4 LIGHTING	11
2.5 DOORS	12
2.6 FIRE PROTECTION	12
2.7 VENTILATION AND AIRCONDITIONING	12
2.8 ACOUSTIC CONSIDERATIONS	16
2.9 VIBRATION	16
2.10 FURNITURE	17
2.11 STATIC ELECTRICITY	17
2.12 SITE SECURITY	17
SECTION 3 ELECTRICAL REQUIREMENTS	
3.1 GENERAL	18
3.2 COMPUTER EQUIPMENT POWER REQUIREMENTS	18
3.3 COMPUTER EQUIPMENT EARTH REQUIREMENTS	20
3.4 ELECTROMAGNETIC COMPATIBILITY	20
3.5 LIGHTNING PROTECTION	22
APPENDICES	
A GUIDELINES FOR FACILITY DESIGN OF COMPUTER INSTALLATIONS	23
B GUIDELINES FOR DESIGNING FLOORING FOR COMPUTER INSTALLATIONS	29
C GUIDELINES FOR DESIGNING AIRCONDITIONING FOR COMPUTER INSTALLATIONS	34
D GUIDELINES FOR THE CONTROL OF STATIC ELECTRICITY	38
E GUIDELINES FOR IMPROVING THE QUALITY OF COMPUTER ELECTRICAL POWER	43

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-