

AS/NZS 4487:1997

Australian/New Zealand Standard[®]

Pyrogen fire extinguishing systems

AS/NZS 4487:1997

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee FP/11, Fire Extinguishing Systems. It was approved on behalf of the Council of Standards Australia on 11 July 1997 and on behalf of the Council of Standards New Zealand on 11 July 1997. It was published on 5 September 1997.

The following interests are represented on Committee FP/11:

Australian Chamber of Commerce and Industry
Fire Protection Association, Australia
Commonwealth Fire Board, Australia
Department of Defence, Australia
Fire Trainers Association of Australia
Institute of Security Executives
Metal Trades Industry Association of Australia
New Zealand Fire Equipment Association
New Zealand Fire Protection Association
Scientific Services Laboratory AGAL, Department of Administrative Services
Society of Fire Protection Engineers, Australasian Chapter
Standards New Zealand
Telstra Corporation
Waterways Authority (N.S.W.)

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which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.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.

AS/NZS 4487:1997

Australian/New Zealand Standard[®]

Pyrogen fire extinguishing systems

First published as AS/NZS 4487:1997.

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

ISBN 0 7337 1315 7

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee FP/11 on Fire Extinguishing Systems.

The objective of this Standard is to provide users of Pyrogen fire extinguishing aerosol systems with specific requirements for the control of fires of Classes A, B, C, E and F type. It does not cover the design of explosion suppression systems.

It is essential that fire extinguishing equipment be carefully maintained to ensure instant readiness when required. The importance of maintenance cannot be too highly emphasized. The maintenance requirements for Pyrogen fire extinguishing aerosol systems for fire protection equipment are detailed in another Standard.

It is a basic assumption in all technical Standards work that each Standard be used only by persons competent in the field of application with which it deals. This is of particular importance in fire protection work. Accordingly, it is emphasized that the design requirements in this Standard are to be interpreted only by trained and experienced designers.

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.

© 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.

CONTENTS

	<i>Page</i>
FOREWORD	5
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	6
1.2 APPLICATION	6
1.3 NEW DESIGN AND INNOVATIONS	6
1.4 REFERENCED DOCUMENTS	6
1.5 INTERPRETATION OF SPECIFIED LIMITING VALUES	7
1.6 DEFINITIONS	7
1.7 USES AND LIMITATIONS OF PYROGEN	8
SECTION 2 SAFETY REQUIREMENTS	
2.1 POTENTIAL HAZARDS	11
2.2 PROTECTION OF OCCUPANTS	11
2.3 SAFETY ASPECTS	11
SECTION 3 SYSTEM SUPPLY	
3.1 QUALITY	14
3.2 SOLID AEROSOL-FORMING COMPOSITION	14
3.3 COOLANT	14
3.4 IGNITION DEVICE	15
3.5 PYROGEN GENERATORS	15
3.6 ACCESSORIES	15
3.7 STORAGE ARRANGEMENTS	15
SECTION 4 SYSTEM DESIGN	
4.1 SPECIFICATIONS, PLANS AND APPROVALS	17
4.2 CONCENTRATION REQUIREMENTS	18
4.3 TOTAL FLOODING QUANTITY REQUIREMENTS	19
4.4 DESIGN LIMITATIONS FOR TOTAL FLOODING SYSTEMS	20
SECTION 5 PROTECTED ENCLOSURE REQUIREMENTS	
5.1 UNCLOSABLE OPENINGS	21
5.2 VENTILATION AND SERVICES	21
5.3 PRESSURE RELIEF VENTING	21
5.4 ENCLOSURE STRENGTH	22
SECTION 6 INSTALLATION	
6.1 GENERAL	23
6.2 ARRANGEMENT	23
6.3 INSTALLATION RECOMMENDATIONS	23

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](#)
-