

AS 2118.2—1995

Australian Standard<sup>®</sup>

---

**Automatic fire sprinkler systems**

**Part 2: Wall wetting sprinklers  
(Drenchers)**

---

This Australian Standard was prepared by Committee FP/4, Automatic Sprinkler Installations. It was approved on behalf of the Council of Standards Australia on 13 January 1995 and published on 5 April 1995.

---

The following interests are represented on Committee FP/4:

Asset Services, Department of Administrative Services  
Australian Building Codes Board  
Australian Chamber of Commerce and Industry  
Australian Chamber of Manufactures  
Australian Fire Authorities Council  
Australian Fire Protection Association  
Australian Water and Sewerage Authorities  
Commonwealth Fire Board  
CSIRO—Division of Building, Construction and Engineering  
Department of Defence  
Fire Protection Industry Association of Australia  
Institution of Engineers, Australia  
Insurance Council of Australia  
Master Plumbers and Mechanical Services Association of Victoria  
Melbourne Water  
New Zealand Fire Equipment Association  
New Zealand Fire Protection Association  
Telecom Australia  
The Association of Consulting Engineers, 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which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.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 87194.*

AS 2118.2—1995

Australian Standard<sup>®</sup>

---

**Automatic fire sprinkler systems**

**Part 2: Wall wetting sprinklers  
(Drenchers)**

---

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

ISBN 0 7262 9649 X

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee FP/4 on Automatic Sprinkler Installations, to be Part 2 of AS 2118.

This Standard is the result of a consensus among Australian and New Zealand representatives on the Joint Committee to produce it as an Australian Standard.

This Standard specifies performance requirements for wall wetting sprinklers and provides, in Appendices, methods of assessing the area requiring protection on a performance basis. It should be noted that this method of assessing areas requiring protection does not override the requirements of the BCA.

The revisions to AS 2118 have included Standards Australia's requirements to keep product and installation Standards separate. When complete the series will comprise:

### AS

#### 2118 Automatic fire sprinkler systems

- Part 1: Standard
- Part 2: Wall wetting sprinklers (Drenchers)
- Part 3: Deluge
- Part 4: Residential
- Part 5: Domestic
- Part 6: Combined sprinkler and hydrant
- Part 9: Piping support and installation
- Part 10: Approval documentation

#### 4118 Fire sprinkler systems

- Part 1.1: Components—Sprinklers and sprayers
- Part 1.2: Components—Alarm valves (wet)
- Part 1.3: Components—Water motor alarms
- Part 1.4: Components—Valve monitors
- Part 1.5: Components—Deluge and pre-action valves
- Part 1.6: Components—Stop valves and non-return valves
- Part 1.7: Components—Alarm valves (dry)
- Part 1.8: Components—Pressure reducing valves
- Part 1.9: Components—Accelerators and exhausters
- Part 2.1: Piping—General

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.

## CONTENTS

	<i>Page</i>
FOREWORD .....	4
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE .....	5
1.2 NEW DESIGNS AND INNOVATIONS .....	5
1.3 INTERPRETATIONS .....	5
1.4 REFERENCED AND RELATED DOCUMENTS .....	5
1.5 DEFINITIONS .....	5
1.6 TYPES OF SYSTEMS .....	6
SECTION 2 SYSTEM DESIGN	
2.1 GENERAL .....	7
2.2 SEALED WALL WETTING SPRINKLER SYSTEMS .....	7
2.3 OPEN WALL WETTING SPRINKLER SYSTEMS .....	7
2.4 MAXIMUM NUMBER OF WALL WETTING SPRINKLERS ON SYSTEM ..	7
2.5 MINIMUM OPERATING PRESSURE .....	7
2.6 AREA TO BE PROTECTED .....	8
2.7 SHIELDING OF WALL WETTING SPRINKLERS .....	8
2.8 SPACING OF WALL WETTING SPRINKLERS .....	9
2.9 DISTANCE OF WALL WETTING SPRINKLERS FROM THE PROTECTED SURFACE .....	9
2.10 SEALED WALL WETTING SPRINKLERS .....	9
2.11 OPEN WALL WETTING SPRINKLERS .....	9
SECTION 3 WATER SUPPLIES	
3.1 GENERAL .....	10
3.2 PROVING OF WATER SUPPLIES .....	10
3.3 CONNECTIONS TO OTHER SERVICES .....	10
3.4 FIRE BRIGADE BOOSTER CONNECTION .....	10
3.5 PRESSURE LIMITATIONS .....	11
3.6 MINIMUM CAPACITY OF RESERVOIRS AND TANKS .....	11
3.7 PRIVATE WATER SUPPLIES .....	11
3.8 TOWN MAINS .....	11
SECTION 4 PUMPSET INSTALLATIONS .....	13
SECTION 5 SYSTEM COMPONENTS	
5.1 GENERAL .....	14
5.2 INSTALLATION CONTROL ASSEMBLIES .....	14
5.3 EMERGENCY INSTRUCTIONS .....	14
5.4 LOCATION PLATE .....	14
SECTION 6 PIPING .....	15
APPENDICES	
A REFERENCED AND RELATED DOCUMENTS .....	16
B A METHOD OF ASSESSING THE AREA REQUIRING PROTECTION .....	17
C DISCHARGE PERFORMANCE TEST FOR WALL WETTING SPRINKLERS ..	23
D DETERMINATION OF THE AREA OF OPERATION .....	29
E DETERMINATION OF RADIANT HEAT OPERATION CHARACTERISTICS OF SEALED WALL WETTING SPRINKLERS .....	31
F WIRING SYSTEMS RATING .....	33

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](#)
-