

**AS 2118.1:2017**  
(Incorporating Amendment Nos 1, 2 and 3)

AS 2118.1:2017



# **Automatic fire sprinkler systems**

## **Part 1: General systems**



This Australian Standard® was prepared by Committee FP-004, Automatic Sprinkler Installations. It was approved on behalf of the Council of Standards Australia on 1 September 2017.

This Standard was published on 14 September 2017.

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The following are represented on Committee FP-004:

- Association of Hydraulic Services Consultants Australia
  - Australasian Fire and Emergency Service Authorities Council
  - Australian Building Codes Board
  - Australian Chamber of Commerce and Industry
  - Bulky Goods Retailers Association
  - Consumers Federation of Australia
  - CSIRO
  - Department of Human Services (VIC)
  - Engineers Australia
  - Fire Protection Association Australia
  - Insurance Council of Australia
  - National Fire Industry Association Australia
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This Standard was issued in draft form for comment as DR AS 2118.1:2016.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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**Australian Standard<sup>®</sup>**

**Automatic fire sprinkler systems**

**Part 1: General systems**

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## PREFACE

This Standard was prepared by the Standards Australia Committee FP-004, Automatic Sprinkler Installations, to supersede AS 2118.1—2006.

*This Standard incorporates Amendment No. 1 (December 2017), Amendment No. 2 (July 2020) and Amendment No. 3 (February 2024). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

The objective of this edition is to include changes that reflect recent advances in technology and to refine the content for clarity and conciseness.

Changes to this edition are the following:

- (a) Incorporation of amendments to the 2006 edition.
- (b) Section 12—now Section 14, Hydraulic calculation methods.
- (c) Significant changes to Section 3 concerning exposure protection, and to Section 5 relating to protection of concealed spaces.
- (d) Section 9, Light Hazard class systems, entirely rewritten to include more useable and up-to-date parameters for the design of this class of system.
- (e) New Sections 11, 12 and 13 (High Hazard).
- (f) Expanded definitions clause.
- (g) Inclusion of informative text for occupancy classification (Appendix A).

The revision to the AS 2118 suite of Standards has included Standards Australia's requirements to keep product and installation Standards separate. The series comprises the following:

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2118	Automatic fire sprinkler systems
2118.1	Part 1: General systems (this Standard)
2118.2	Part 2: Drencher systems
2118.3	Part 3: Deluge
2118.4	Part 4: Sprinkler protection for accommodation buildings not exceeding four storeys in height
2118.5	Part 5: Home fire sprinkler systems
2118.6	Part 6: Combined sprinkler and hydrant systems in multistorey buildings
4118	Fire sprinkler systems
4118.1.1	Part 1.1: Components—Sprinklers and sprayers
4118.1.2	Part 1.2: Components—Alarm valves (wet)
4118.1.3	Part 1.3: Components—Water motor alarms
4118.1.4	Part 1.4: Components—Valve monitors
4118.1.5	Part 1.5: Components—Deluge and pre-action valves
4118.1.6	Part 1.6: Components—Stop valves and non-return valves
4118.1.7	Part 1.7: Components—Alarm valves (dry)
4118.1.8	Part 1.8: Components—Pressure reducing valves
4118.1.9	Part 1.9: Components—Accelerators and exhausters
4118.2.1	Part 2.1: Piping—General

A2

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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 incorporates commentary on some of the clauses. The commentary directly follows the relevant clause, is designated by 'C' preceding the clause number and is printed in italics in a box. The commentary is for information only and does not need to be followed for compliance with the Standard.*

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