

Australian Standard™

Fire sprinkler systems

Part 2.1: Piping—General

This Australian Standard was prepared by Committee FP-004, Automatic Sprinkler Installations. It was approved on behalf of the Council of Standards Australia on 30 January 1995.

This Standard was published on 5 April 1995.

The following are represented on Committee FP-004:

- Australian Building Codes Board
- Australian Chamber of Commerce and Industry
- Australian Chamber of Manufacturers
- Australian Construction Services, Department of Administrative Services
- Australian Fire Authorities Council
- Australian Fire Protection Association
- Australian Water and Sewerage Authorities
- Commonwealth Fire Board
- Confederation of Australian Industry
- CSIRO—Division of Building, Construction and Engineering
- Department of Defence
- Fire Protection Industry Association of Australia
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Part 2.1: Piping—General

Originated as part of AS CA16—1937.
Previous edition AS 2118—1982.
Revised and redesignated in part as AS 4118.2.1—1995.
Reissued incorporating Amendment No. 1 (June 2005).

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Published by Standards Australia GPO Box 5420, Sydney, NSW 2001, Australia
ISBN 0 7262 9689 9

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee FP/4 on Automatic Sprinkler Installations, to supersede in part AS 2118—1988, *SAA Code for Automatic Fire Sprinkler Systems*.

This Standard incorporates Amendment No. 1 (June 2005). 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.

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

The revisions to AS 2118 include 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.

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STANDARDS AUSTRALIA**Australian Standard
Fire sprinkler systems****Part 2.1: Piping—General****SECTION 1 SCOPE AND GENERAL****1.1 SCOPE**

This Standard specifies requirements for piping for fire sprinkler systems.

NOTE: Illustrations in this Standard are diagrammatic only and have been chosen without prejudice.

1.2 NEW DESIGNS AND INNOVATIONS

Any alternative materials, designs, methods of assembly and procedures that do not comply with specific requirements of this Standard, or are not mentioned in it, but give equivalent results to those specified, are not necessarily prohibited. The specified approval remains the prerogative of the regulatory authority.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- 1074 Steel tubes and tubulars for ordinary service
- 1281 Cement mortar lining of steel pipes and fittings
- 1432 Copper tubes for plumbing, gas fitting and drainage applications
- 1516 The cement mortar lining of pipelines in situ
- 1518 Extruded high density polyethylene protective coating for pipes
- 1579 Arc welded steel pipes and fittings for water and waste water
- 1650 Hot-dipped galvanized coatings on ferrous articles
- 1674 Safety in welding and allied processes
- 1674.1 Part 1: Fire precautions
- 1724 Cast grey iron pressure pipes and fittings with bolted gland joints
- 1834 Material for soldering (Parts 1 and 2)
- 2118 Automatic fire sprinkler systems
- 2118.1 Part 1: Standard
- 2118.9 Part 9: Piping support and installation
- 2484 Fire—Glossary of terms
- 2484.1 Part 1: Fire tests
- 2484.2 Part 2: Fire protection and firefighting equipment
- 2544 Grey iron pressure pipes and fittings
- 2706 Numerical values—Rounding and interpretation of limiting values