

Australian Standard™

Fire sprinkler systems

Part 2.1: Piping—General



**STANDARDS
AUSTRALIA**

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.
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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
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Part 2.1: Piping—General

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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 spacers
 - 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: Component—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

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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 |
| 1774 | Cast grey iron pressure pipes and fittings with bolted gland joints |
| 18.4 | 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 |