

Australian Standard[®]

**Pre-engineered fire protection systems
for cooking equipment**

STANDARDS
Australia



This Australian Standard® was prepared by Committee FP-011, Special Hazard Fire Protection Systems. It was approved on behalf of the Council of Standards Australia on 16 June 2008.

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The following are represented on Committee FP-011:

- Australian Industry Group
 - Australian Museum
 - CSIRO Materials Science and Engineering
 - Department of Defence
 - Engineers Australia
 - Fire Protection Association Australia
 - Institute of Security Executives
 - National Fire Industry Association
 - Society of Fire Protection Engineers Australasian Chapter
-

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for cooking equipment**

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PREFACE

This Standard was prepared by the Standards Australia Committee FP-011, Special Hazard Fire Protection System, to supersede AS 3772—1990, *Fire protection of cooking areas*.

The objective of the Standard is to cover the requirements for pre-engineered fire protection systems used to protect cooking appliances and ancillary hoods and ductwork.

This revision has been developed to accommodate changes in cooking equipment technology and practices, including the use of vegetable based cooking oils with higher auto-ignition temperatures and improved cooker insulation. These changes have necessitated the development of new fire testing protocols. While this Standard has been developed with wet chemical systems as the main focus, it does not preclude the use of other agents, provided they satisfy the requirements of this Standard.

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.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

This Standard incorporates a Commentary on some clauses. The Commentary directly follows the relevant clause, is designated by ‘C’ preceding the clause number and is printed in italics in a panel. The commentary is for information only and does not need to be followed for compliance with this Standard.

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STANDARDS AUSTRALIA

Australian Standard

Pre-engineered fire protection systems for cooking equipment

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out requirements for the design, installation commissioning and maintenance of pre-engineered fire protection systems for the protection of unenclosed cooking appliances that produce grease-laden vapours and which may have an open surface of cooking oil or fat. This Standard also applies to the grease removal devices, hood exhaust plenums, exhaust systems, ducts and filters associated with such appliances.

General fire safety requirements for kitchens and cooking areas are included.

Protection of enclosed ovens, water boilers and similar appliances are excluded from the scope of this Standard.

NOTES:

- 1 Requirements for areas protected by sprinklers are given in AS 1851.1.
- 2 Requirements for engineered fire protection systems such as carbon dioxide and water mist, are given in other Australian Standards.
- 3 Examples of equipment this Standard covers are—
 - (a) deep fryers;
 - (b) griddles;
 - (c) grillers;
 - (d) range tops;
 - (e) broilers;
 - (f) woks;
 - (g) tilting skillets;
 - (h) salamanders; and
 - (i) brazing pans.

1.2 NORMATIVE REFERENCES

The following referenced documents are indispensable for the application of this Standard.

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS	
1318	Use of colour for the marking of physical hazards and the identification of certain equipment in industry (known as the SAA Industrial Safety Colour Code)
1319	Safety signs for the occupational environment
1851	Maintenance of fire protection systems and equipment
2030	The verification, filling, inspection, testing and maintenance of cylinders for storage and transport of compressed gases
2030.1	Part 1: Cylinders for compressed gases other than acetylene
2444	Portable fire extinguishers and fire blankets—Selection and location
5601	Gas installations