

Australian Standard[®]

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



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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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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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.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	5
1.2 NORMATIVE REFERENCES	5
1.3 DEFINITIONS	6
1.4 WET CHEMICAL SYSTEMS	7
1.5 COMPETENCIES	7
SECTION 2 SAFETY REQUIREMENTS	
2.1 EMERGENCY PROCEDURES	8
2.2 SIGNS AND WARNING NOTICES	8
2.3 FIRE EXTINGUISHERS	9
2.4 FIRE BLANKETS	10
SECTION 3 DOCUMENTATION	
3.1 GENERAL	11
3.2 IDENTIFICATION	11
3.3 DESIGN	11
3.4 PLANS	12
3.5 COMMISSIONING	12
3.6 SYSTEM OWNER'S MANUAL	13
SECTION 4 SYSTEM DESIGN	
4.1 GENERAL	14
4.2 APPROVAL OF COMPONENTS	14
4.3 MOVEABLE COOKING APPLIANCES	14
4.4 DESIGN AND CALCULATIONS	15
4.5 EXTINGUISHING AGENT QUANTITY	16
4.6 FUEL SHUT-OFF	16
4.7 COMPONENTS	16
SECTION 5 SUPPLY	
5.1 EXTINGUISHING AGENT	17
5.2 STORAGE CONTAINERS	17
SECTION 6 DISTRIBUTION SYSTEMS	
6.1 GENERAL	18
6.2 PIPEWORK	18
6.3 NOZZLES	18
SECTION 7 DETECTION, ACTUATION AND CONTROLS	
7.1 GENERAL	20
7.2 ELECTRICAL WIRING AND EQUIPMENT	20
7.3 DETECTION	20
7.4 SYSTEM ACTUATION	20
7.5 CONTROL AND INDICATING EQUIPMENT	21

	<i>Page</i>
SECTION 8 COMMISSIONING AND ACCEPTANCE	
8.1 GENERAL	22
8.2 PRELIMINARY REVIEW	22
8.3 SYSTEM FUNCTION AND OPERATION TEST	22
8.4 DISCHARGE TEST	22
8.5 PLACING IN SERVICE	22
8.6 CERTIFICATE OF COMPLETION AND DOCUMENTATION	22
SECTION 9 MAINTENANCE	
9.1 GENERAL	23
9.2 MAINTENANCE PERSONNEL.....	23
9.3 MAINTENANCE RECORDS	23
9.4 PROCEDURES AND PRECAUTIONS	23
9.5 DESIGN SURVEY	24
9.6 CONDITION REPORT	24
9.7 SCHEDULES	24
APPENDICES	
A WET CHEMICAL SYSTEMS	31
B COMPETENCIES AND AUTHORITY TO WORK	33
C SAMPLE COMMISSIONING CHECKLIST	34
D SAMPLE CERTIFICATE OF COMPLETION.....	36
BIBLIOGRAPHY	40

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 2118.1.
- 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