

AS 3772:2020



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# Pre-engineered fire protection systems for cooking equipment

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# Pre-engineered fire protection systems 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 — 2008, *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.

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 major changes in this edition are as follows:

- (a) Specifications for electrical power supply requirements increased.
- (b) Maintenance section revised to align with AS 1851.
- (c) Terms and definitions and referenced Standards updated.

The terms “normative” and “informative” are used in Standards 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 includes a 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 and guidance and does not form part of the Standard.

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# 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.

NOTE 1 Requirements for areas protected by sprinklers are given in AS 2118.1.

NOTE 2 Requirements for engineered fire protection systems such as carbon dioxide and water mist, are given in other Australian Standards referenced in AS 4158 and AS 6183.

NOTE 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 documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents for informative purposes are listed in the Bibliography.

AS 1319, *Safety signs for the occupational environment*

AS 1570.1, *Fire detection, warning, control and intercom systems — System design, installation and commissioning, Part 1: Fire*

AS 1851, *Routine service of fire protection systems and equipment*

AS 2030.1, *Gas cylinders, Part 1: General requirements*

AS 2444, *Portable fire extinguishers and fire blankets — Selection and location*

AS 2470, *Steel cylinders for compressed gases — Welded three-piece construction with longitudinal joint — 11 kg to 150 kg*