



Fire, smoke and air dampers

Part 2: Installation



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- Air Conditioning and Mechanical Contractors Association
 - Australasian Fire and Emergency Service Authorities Council
 - Australian Building Codes Board
 - Australian Industry Group
 - Australian Institute of Refrigeration, Air Conditioning and Heating
 - Chartered Institution of Building Services Engineers
 - Consumer Electronics Suppliers Association
 - Department of Health and Human Services, Tas.
 - Engineers Australia
 - Facility Management Association of Australia
 - NATSPEC
 - The Insulation Contractors Association of Australia, NSW
 - Victorian Building Authority
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Australian Standard[®]

Fire, smoke and air dampers

Part 2: Installation

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-062, Ventilation and Airconditioning, to supersede AS 1682.2—1990, *Fire dampers, Part 2: Installation*.

The objective of this Standard is to provide requirements on the selection, installation and commissioning of fire, smoke and air dampers for use in air handling systems. Design, manufacturing, and testing requirements for fire dampers are specified in AS 1682.1, *Fire and smoke dampers, Part 1: Specification*.

It should be noted that fire collars, typically used for stormwater and waste water drainage systems, are *not* fire dampers and their use in air handling systems is strictly prohibited.

This edition incorporates the following changes from AS 1682.2—1990:

- (a) Priority given to installation instructions as the basis of all installations.
- (b) Installation requirements for smoke dampers and air dampers added.
- (c) Performance requirements for fire damper and smoke damper installations as normative appendices.
- (d) Guidance given for regulatory periodic inspections.
- (e) Breakaway jointing amended.
- (f) Typical commissioning check sheet included.
- (g) Baseline data introduced.

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.

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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STANDARDS AUSTRALIA

Australian Standard
Fire, smoke and air dampers

Part 2: Installation

1 SCOPE

This Standard specifies requirements for the selection, installation and commissioning of fire, smoke and air dampers complying with AS 1682.1.

NOTE: Guidelines on the information that should be supplied by the specifier or purchaser at the time of specifying, enquiring or ordering are given in Appendix D.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- 1530 Methods for fire tests on building materials, components and structures
1530.4 Part 4: Fire-resistance tests of elements of construction
1530.7 Part 7: Smoke control assemblies—Ambient and medium temperature leakage test procedure

1682 Fire, smoke and air dampers

1682.1 Part 1: Specification

4254 Ductwork for air-handling systems in buildings

4254.2 Part 2: Rigid duct

AS/NZS

1668 The use of ventilation and airconditioning in buildings

1668.1 Part 1: Fire and smoke control in multi-compartment buildings

3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS 1682.1 apply.

4 PRELIMINARY CONSIDERATIONS

4.1 General

Dampers installed in accordance with this Standard shall comply with AS 1682.1.

4.2 Fire and smoke dampers

Fire dampers, smoke dampers and combined fire and smoke dampers shall be installed into the same type of construction and in the same manner in which the prototypes were tested or assessed by a testing authority to be in accordance with AS 1682.1.

The following conditions shall apply to the installation of fire dampers where the separation is less than that nominated in AS 1530.4:

- (a) Where multiple openings are created in wall or slab, the fire resistance level (FRL) structural adequacy of the wall or slab shall be maintained.
- (b) Where dampers are installed less than 75 mm from an adjacent wall, ceiling slab or floor slab, the installation shall comply with the fire test or opinion