

AS 1668.1—1991

Australian Standard[®]

**The use of mechanical ventilation
and air-conditioning in buildings**

Part 1: Fire and smoke control

This Australian Standard was prepared by Committee ME/62, Mechanical Ventilation and Air-conditioning. It was approved on behalf of the Council of Standards Australia on 16 May 1991 and published on 1 July 1991.

The following interests are represented on Committee ME/62:

Association of Consulting Engineers, Australia
Australian Assembly of Fire Authorities
Australian Construction Services
Australian Institute of Environment Health
Australian Institute of Refrigeration Air Conditioning and Heating
Australian Uniform Building Regulations Coordinating Council
Building Owners and Managers Association of Australia
Council of Air Conditioning and Mechanical Contractors Associations of Australia
Council of the City of Sydney
Department of Health, New South Wales
Fire Protection Industry Associations of Australia
Insurance Council of Australia
Metal Trades Industry Association of Australia
Public Works Department, New South Wales

Additional interests participating in preparation of this Standard:

CSIRO, Division of Building, Construction and Engineering

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PREFACE

This Standard was prepared by the Standards Australia Committee on Mechanical Ventilation and Air-conditioning to supersede AS 1668, *The use of mechanical ventilation and air-conditioning in buildings*, Part 1—1979 *Fire precautions in buildings with air-handling systems*.

This revision has been written to enable reference by the *Building Code of Australia* (BCA).

A new format has been adopted to enhance information retrieval and to ensure general requirements of the Standard are more widely applicable. Operation of exhaust and supply systems under fire conditions are covered and smoke control systems for use in multi-compartment buildings have been specified as deemed-to-comply systems with the objectives stated within the Standard and the BCA. Alternative smoke control system arrangements are permitted, provided they are no less effective than the deemed-to-comply systems.

The Standard does not identify those buildings in which smoke control systems or pressurization systems are required; this is covered in the BCA.

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

The Commentary to this Standard has been updated in line with this publication and is included as an appendix in this document. It is written in an advisory manner only, and does not form part of the Standard. It provides guidance on the application of the Standard by explaining the intent of the clauses.

References in the Commentary are those for the corresponding clauses in the body of the Standard and have a prefix 'C'.

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