

## AS 1668.2 Supplement 1—2002

### **The use of ventilation and airconditioning in buildings— Ventilation design for indoor air contaminant control**

**(Supplement 1 to AS 1668.2—2002)**

This Australian Standard supplement was prepared by Committee ME-062, Ventilation and Airconditioning. It was approved on behalf of the Council of Standards Australia on 29 April 2002 and published on 10 June 2002.

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The following are represented on Committee ME-062:

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Air Conditioning and Refrigeration Equipment Manufacturers Association of Australia  
Australasian Fire Authorities Council  
Australian Building Codes Board  
Australian Institute of Building Surveyors  
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# **The use of ventilation and airconditioning in buildings—Ventilation design for indoor air contaminant control**

## **(Supplement 1 to AS 1668.2—2002)**

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## PREFACE

This Supplement to AS 1668, *The use of ventilation of airconditioning in buildings, Part 2: Ventilation design for contaminant control*, was prepared by the Standards Australia Committee ME-062, Ventilation and Airconditioning, to provide background and further information to support the Standard and to assist users in its correct application.

This publication supersedes AS 1668.2 Supp 1—1991, *The use of mechanical ventilation for acceptable indoor air quality—Commentary (Supplement to AS 1668.2—1991)*.

The Commentary to specific clauses of the Standard has been relocated to the main body of the Standard.

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## Australian Standard

**The use of ventilation and airconditioning in buildings—Ventilation  
design for indoor air contaminant control  
(Supplement 1 to AS 1668.2—2002)**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This supplement provides background and further information on AS 1668.2, to support the Standard and to assist users in its correct application.

Appendix A provides information on a possible relationship between environmental tobacco smoke (ETS) generation rates, ventilation rates and some health outcomes from exposure to ETS.

Appendix B provides information on ventilation effectiveness.

Appendix C provides information on outdoor air contaminant levels.

Appendix E provides information on supplementary measures for the control of ETS or other contaminants.

Appendix F provides information on a performance approach to mechanical ventilation system design.

Appendix G provides information on the rationale for lead and lag time for transient occupancies.

Appendix H provides a commentary on carbon monoxide exposure in occupational environments.

Appendix I provides examples of layouts of car park mechanical ventilation system.

Appendix J provides information on the basis of the airflow rates formulae for car parks.

Appendix K provides information on the basis for length of vehicle queue in car parks.

Appendix L provides information on the derivation of airflow rates for queuing areas in car parks.

Appendix M provides information on the marking, commissioning, reliability and records of automatic monitoring systems for car parks.

Appendix N provides information on emissions from building materials, furnishings and equipment.

**1.2 REFERENCED DOCUMENTS**

The following documents are referred to in this Standard:

AS	
1668	The use of ventilation and airconditioning in buildings
1668.2	Part 2: Ventilation design for indoor air contaminant control
4006	Software test documentation
AS	
4008	Software design documentation



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