

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)

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Air Conditioning and Refrigeration Equipment Manufacturers Association of Australia
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Australian Building Codes Board
Australian Institute of Building Surveyors
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(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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STANDARDS AUSTRALIA

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