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)

Standards Australia

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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Air Conditioning and Refrigeration Equipment Manufacturers Association of Australia
Australasian Fire Authorities Council
Australian Building Codes Board
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This Standard was issued in draft form for comment as DR 96425(in part).

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)

Originated as MP47.C2—1980.
Previous edition AS 1665.2 Supplement 1—1999.
Second edition 2002.

Published by Standards Australia International Ltd
GPO Box 5420, Sydney, NSW 2001, Australia

ISBN 0 7337 4527 X

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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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

