

Australian/New Zealand Standard™

**Natural ventilators—Classification
and performance**



Standards Australia



STANDARDS
NEW ZEALAND
Paeonua Aotearoa

AS/NZS 4740:2000

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The following interests are represented on Committee ME/62:

Air Conditioning and Mechanical Contractors Association of Australia
Air-conditioning and Refrigeration Equipment Manufacturers Association of Australia
Australasian Fire Authorities Council
Australian Building Codes Board
Australian Institute of Building Surveyors
Australian Institute of Refrigeration, Air Conditioning and Heating
Chartered Institution of Building Services Engineers
CSIRO—Division of Building, Construction and Engineering
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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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AS/NZS 4740:2000
Natural ventilators—Classification and performance

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NOTES

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME/62, Ventilation and Airconditioning.

The objective of this document is to provide standardized requirements and performance test methods for natural ventilators for use by manufacturers, suppliers, testers, specifiers and consumers of these products.

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.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies minimum requirements for ventilators designed to provide ventilation of enclosures by means of the natural flow of air.

This Standard includes classification, performance and marking requirements. It also includes appendices outlining the performance test methods. It does not apply to electrically powered ventilators or to smoke and heat exhaust ventilators.

1.2 APPLICATION

The method of tests used for the performance assessment of natural ventilators will depend on the required type, performance and application of the ventilator. This document should not be called up in contracts without specifying the detail to be derived from it.

NOTES:

- 1 Purchasing guidelines are provided in Appendix A.
- 2 This Standard is a product Standard and does not include requirements for the design or installation of natural ventilation systems. Manufacturers and suppliers should be contacted for design and installation information appropriate to their products.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

| | |
|----------|--|
| AS | |
| 1199 | Sampling procedures and tables for inspection by attributes |
| 1399 | Guide to AS 1199—Sampling procedures and tables for inspection by attributes |
| 1745 | Outdoor weathering of plastics in the Australian environment |
| 1745.2 | Part 2: Guide for design purposes |
| 2360 | Measurement of fluid flow in closed conduits |
| 2360.1.1 | Part 1.1: Pressure differential methods—Measurement using orifice plates, nozzles or Venturi tubes—Conduits with diameters from 50 mm to 1200 mm |
| 2427 | Smoke/heat release vents |
| AS/NZS | |
| 2312 | Guide to the protection of iron and steel against exterior atmospheric corrosion |
| 2728 | Prefinished/prepainted sheet metal products for interior/exterior building applications—Performance requirements |
| ISO | |
| 5801 | Industrial fans—Performance testing using standardized airways |