

Australian Standard<sup>®</sup>

**Ductwork for air-handling systems in  
buildings**

**Part 2: Rigid duct**

**STANDARDS**  
Australia



This Australian Standard® was prepared by Committee ME-062, Ventilation and Air conditioning. It was approved on behalf of the Council of Standards Australia on 17 October 2012.

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The following are represented on Committee ME-062:

- Air Conditioning & Mechanical Contractors Association
  - Australasian Fire and Emergency Service Authorities Council
  - Australian Building Codes Board
  - Australian Industry Group
  - Australian Institute of Refrigeration Air Conditioning and Heating
  - Chartered Institution of Building Services Engineers
  - Climate Control Companies Association
  - Consumer Electronics Suppliers Association
  - Department of Health and Human Services Tasmania
  - Engineers Australia
  - Facility Management Association of Australia
  - Fire Protection Association Australia
  - Institute of Refrigeration Heating & Air Conditioning Engineers of New Zealand
  - Plastics and Chemicals Industries Association
  - Plumbing Industry Commission
  - Property Council of Australia
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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-062, Mechanical Ventilation and Air Conditioning, to supersede, in part, AS 4254—2002, *Ductwork for air-handling systems in buildings*.

This Standard is Part 2 of a series on ductwork for air-handling systems, as follows:

AS

4254 Ductwork for air-handling systems in buildings

4254.1 Part 1: Flexible duct

4254.2 Part 2: Rigid duct

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.

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

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## STANDARDS AUSTRALIA

**Australian Standard**  
**Ductwork for air-handling systems in buildings**

**Part 2: Rigid duct**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies requirements for materials, construction, and installation, including some aspects of performance, for ductwork for air-handling systems in buildings and facilities, including systems designed in accordance with the requirements of AS/NZS 1668.1 and AS 1668.2.

**1.2 OBJECTIVE**

The objective of this Standard is to provide standardized requirements for the manufacture and installation of ducts and associated equipment for the use of designers, manufacturers and installers of air-handling systems for buildings.

The objective of this 2012 revision is to update the standard to reflect current industry practices.

**1.3 NORMATIVE REFERENCES**

The following are the normative documents referenced in this Standard:

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

## AS

- |        |   |
|--------|---|
| 1397   | Continuous hot-dip metallic coated steel sheet and strip—Coatings of zinc and zinc alloyed with aluminium and magnesium |
| 1443   | Carbon and carbon-manganese steel—Cold finished bars  |
| 1530   | Methods of fire tests on building materials, components and structures  |
| 1530.4 | Part 4: Fire-resistance test of elements of construction  |
| 1668   | The use of ventilation and airconditioning in buildings   |
| 1668.2 | Part 2: Mechanical ventilation in buildings   |
| 1682   | Fire dampers (all parts)  |
| 2352   | Preferred dimensions of wrought metal products  |

## AS/NZS

- |        |   |
|--------|---|
| 1530   | Methods for fire tests on building materials, components and structures                               |
| 1530.3 | Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release |
| 1668   | The use of ventilation and airconditioning in buildings   |
| 1668.1 | Part 1: Fire and smoke control in multi-compartment buildings   |
| 1734   | Aluminium and aluminium alloys—Flat sheet, coiled sheet and plate                                     |
| 1866   | Aluminium and aluminium alloys—Extruded rod, bar, solid and hollow shapes                             |