

**AS/NZS 5601.1:2013**  
(Incorporating Amendment Nos 1, 2, 3 and 4)

AS/NZS 5601.1:2013

**Australian/New Zealand Standard™**

**Gas installations**

**Part 1: General installations**



## **AS/NZS 5601.1:2013**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee AG-006, Gas Installations. It was approved on behalf of the Council of Standards Australia on 12 August 2013 and on behalf of the Council of Standards New Zealand on 13 August 2013.

This Standard was published on 16 September 2013.

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The following are represented on Committee AG-006:

Association of Accredited Certification Bodies  
Association of Hydraulic Services Consultants Australia  
Australian Building Codes Board  
Department of Employment, Economic Development and Innovation, Qld  
Energy Networks Association  
Gas Appliance Manufacturers Association of Australia  
Gas Association of New Zealand  
Gas Technical Regulators Committee  
Gas Utilisation Institute  
LPG Association of New Zealand  
LPG Australia  
Master Plumbers & Mechanical Services Association of Australia  
Master Plumbers, Gasfitters and Drainlayers New Zealand  
Ministry of Business, Innovation and Employment, New Zealand  
Plumbing Industry Commission  
The Australian Gas Association

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For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the back cover.

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*This Standard was issued in draft form for comment as DR AS/NZS 5601.1.*

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# Australian/New Zealand Standard™

## Gas installations

### Part 1: General installations

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Originated in New Zealand as NZS 5261:1996.  
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## PREFACE

This Standard was prepared by the Standards Australia/Standards New Zealand Committee AG-006, Gas Installations, to supersede AS/NZS 5601.1:2010.

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If a Standard is referenced in legislation, the legislative instrument or regulation specifies when the Standard or Amendment comes into effect. Regulatory Authorities have indicated 12 months, following the date of publication, as an appropriate transition period for this Amendment.

*This Standard incorporates Amendment No. 1 (August 2015), Amendment No. 2 (May 2016), Amendment No. 3 (April 2020) and Amendment No. 4 (September 2020). The changes required by the Amendments are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

The objective of this Standard is to provide essential requirements and deemed-to-comply solutions, and to promote uniform standards of gas installation.

This Standard is not to be regarded as a design specification or an instruction manual for untrained persons.

This Standard has no legal standing in its own right, but may acquire legal standing in either of the following circumstances:

- (a) Where adopted by a government or other authority having jurisdiction over relevant installations.
- (b) Where adopted as part of an installation specification.

Regulatory bodies (Technical Regulators) may adopt this Standard. The Standard accommodates some variation of requirements among the regulatory jurisdictions. [Appendix N](#) sets out the detail of these variations.

New Zealand instituted legislative changes in 1992 which removed the responsibility for inspection and certification of gas installations from the gas suppliers and instituted a regime of gas certification by a person authorized under the Plumbers, Gasfitters, and Drainlayers Act 2006.

Where the Standard has acquired legal standing, its requirements in Australia are mandatory (variations/exceptions being indicated as described above).

For New Zealand, it is intended that only the performance requirements ([Section 2](#)) will be mandatory.

Matters of an advisory or explanatory nature are indicated in the following manners:

- (i) The word 'NOTE(S)' followed by a statement(s).
- (ii) By the inclusion of them in an informative appendix.
- (iii) By the inclusion of them in examples or Caution note.

Terms or words that are indicated by italics in the body of the text are defined terms or words. This indication of italics does not apply to the text in the Preface, headings or figures. [Section 1](#) contains the definitions of such terms or words as they apply to the Standard.

All the Australian and New Zealand Technical Regulators agree that this Standard should provide for particular appliances and components to be certified. It was also agreed that this Standard include a statement that this requirement would not apply retrospectively.

Section 2 of this Standard details the various aspects of a gas installation that contribute to its safety, stating performance criteria for compliance with legislative requirements for safety of gas installations. Sections 3 to 6 provide more detailed information as a means of compliance with the performance criteria.

The means of compliance in Sections 3 to 6 are not the only means of compliance with the performance criteria in Section 2.

Major changes from AS/NZS 5601.1:2010 include the following:

- (A) Exclusion of 1st family gases (e.g., TLP—tempered liquefied petroleum, see Tables 1.1 and 5.1).
- (B) Temperature limitations for press fit end connectors (see Table 4.1).
- (C) New means of compliance for ventilation of flued appliances, including new normative appendix for combustion products spillage testing (see Clause 6.4.5 and Appendix R).
- (D) Adoption by Australia of Table C1, which was previously for New Zealand only.
- (E) Revised Appendix F for pipe sizing in relation to increased flow capacities where supply and equipment pressure permits.
- (F) Revised Appendix G for the method in calculating breather vent orifice sizes.
- (G) New informative Appendix O for gas appliance commissioning.
- (H) New informative Appendix P for symbols used in gas control system diagrams.
- (I) New informative Appendix Q comprising a gas installation checklist.
- (J) New normative Appendix R for spillage testing of combustion products.

Notes to the text contain information and guidance. They are not an integral part of the Standard.

Statements expressed in mandatory terms in Notes to the Tables and/or Figures are deemed to be requirements of this Standard.

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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