

**AS/NZS 3500.4:2003**  
(Incorporating Amendment Nos 1 and 2)

AS/NZS 3500.4:2003

**Australian/New Zealand Standard™**

**Plumbing and drainage**

**Part 4: Heated water services**



#### **AS/NZS 3500.4:2003**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee WS-014, National Plumbing and Drainage. It was approved on behalf of the Council of Standards Australia on 19 August 2003 and on behalf of the Council of Standards New Zealand on 22 August 2003.

This Standard was published on 15 December 2003.

The following are represented on Committee WS-014:

	ACT Department of Urban Services
	Association of Hydraulic Services Consultants Australia
	Australian Building Codes Board
	Australian Industry Group
	Brisbane Water
	Building Industry Authority NZ
	Building Officials Institute of New Zealand
	Building Research Association of New Zealand
	Business New Zealand
	Certification Bodies (Australia)
	Department of Human Services (South Australia)
A2	Department of Justice (Tasmania)
	Department of Infrastructure and Planning (Queensland)
	Department of Infrastructure, Planning and Environment (NT)
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	Fire Contractors Federation
	Gas Appliance Manufacturers Association of Australia
	Housing Industry Association
	Institute of Plumbing Australia
	Master Builders Australia
	Master Plumbers, Gasfitters and Drainlayers New Zealand
	National Association Sanitary Plumbing and Drainage Contractors
A2	National Fire Industry Association
	New Zealand Water and Waste Association
	Plastics Industry Pipe Association of Australia
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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 either Standards Australia or Standards New Zealand at the address shown on the back cover.

*This Standard was issued in draft form for comment as DR 03227.*

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# Australian/New Zealand Standard™

## Plumbing and drainage

### Part 4: Heated water services

Originated as AS CA51—1968 and AS 1529—1974.  
Previous edition AS/NZS 3500.4.2:1997.  
AS/NZS 3500.4.2:1997 jointly revised and redesignated as AS/NZS 3500.4:2003.  
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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-014, National Plumbing and Drainage Code, to supersede AS/NZS 3500.4.2:1997.

*This Standard incorporates Amendment No. 1 (November 2005) and Amendment No. 2 (December 2010). The changes required by the Amendment 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 installers with solutions to comply with—

- (a) the Plumbing Code of Australia (PCA), and
- (b) the New Zealand Building Code (Clause G12 Water Supplies).

This revision of this Standard has been developed to complement the Plumbing Code of Australia and incorporates amendments and additions arising from industry requirements and the energy efficiency provisions.

This Standard is part of a series of Standards for plumbing and drainage, as follows:

### AS/NZS

3500	Plumbing and drainage
3500.0	Part 0: Glossary of terms
3500.1	Part 1: Water services
3500.2	Part 2: Sanitary plumbing and drainage
3500.3	Part 3: Stormwater drainage
3500.4	Part 4: Heated water services (this Standard)
3500.5	Part 5: Domestic installations

This revision includes following changes:

- (a) Alignment with the requirements of the Plumbing Code of Australia.
- (b) A revision of the materials used in plumbing.
- (c) Incorporation of Amendment 1 on energy efficiency.
- (d) Energy region maps for each state of Australia.
- (e) PL/1 rulings 2002 numbers 1 to 35.

A2 | This Standard is to be read in conjunction with the Plumbing Code of Australia (PCA) in Australia and the NZ Building Code in New Zealand.

A1 | The energy efficiency requirements contained in this edition are, in small part, Australia's response to concerns and responsibilities to global warming. It is one step in the commitment towards greenhouse gas reduction for Australia in response to the Kyoto Agreement.

Where alternative Australian or New Zealand standards are referenced (e.g., AS 1345 or NZS 5807 as appropriate) the Australian Standard shall be used for Australia and the New Zealand Standard shall be used for New Zealand.

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 figures and tables are deemed to be requirements of this Standard.

**PROVISION FOR REVISION**

This Standard necessarily deals with existing conditions, but is not intended to discourage innovation or to exclude materials, equipment and methods that may be developed in future. Revisions will be made from time to time in view of such developments and amendments to this edition will be made only when absolutely necessary.

A2

*This Standard includes commentary on some of the clauses. The commentary directly follows the relevant clause, is designated by 'C' preceding the clause number and is printed in italics in a box. The commentary is for information and guidance and does not form part of the Standard.*

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