

Australian Standard[®]

**Authorization requirements for
plumbing products—Water heaters and
hot-water storage tanks**

STANDARDS
Australia



This Australian Standard® was prepared by Committee EL-020, Electric Water-heating Appliances. It was approved on behalf of the Council of Standards Australia on 23 May 2008. This Standard was published on 10 April 2009.

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- Australian Chamber of Commerce and Industry
 - Australian Electrical and Electronic Manufacturers Association
 - Australian Greenhouse Office, Department of the Environment and Water Resources
 - Australian Industry Group
 - Australian Stainless Steel Development Association
 - Business New Zealand
 - Department of Industry, Tourism and Resources (Commonwealth)
 - Electrical Compliance Testing Association
 - Energy Efficiency and Conservation Authority of New Zealand
 - Heat Exchange Manufacturers Association
 - Institution of Professional Engineers New Zealand
 - Master Plumbers, Gasfitters and Drainlayers New Zealand
 - National Appliance and Equipment Energy Efficiency Committee
 - New Zealand Employers and Manufacturers Association
 - Plumbing Distributors Association of New Zealand
 - Sydney Water Corporation
-

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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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**Authorization requirements for
plumbing products—Water heaters and
hot-water storage tanks**

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee EL-020, Electric Water-heating Appliances, to supersede AS 3498—2003. After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide uniform requirement that regulatory authorities may apply in Australia for basic safety and public health issues relating to the use of water heaters and hot-water storage tanks.

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.

This edition is a major revision of the superseded edition. One of the major changes is that it allows for incremental adjustment of delivery temperature by the installer of water heating appliances intended for delivering water directly to sanitary fixtures that are used primarily for the purposes of personal hygiene such that the temperature at the outlet of the sanitary fixture does not exceed 50°C.

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STANDARDS AUSTRALIA

Australian Standard

Authorization requirements for plumbing products—Water heaters and hot-water storage tanks**1 SCOPE**

This Standard specifies the basic requirements related to safety and public health for water heaters and hot-water storage tanks that are intended for connection to a potable water supply, such as—

- (a) storage water heaters;
- (b) heat-exchange water heaters;
- (c) hot-water storage tanks with an external energy source;
- (d) instantaneous water heaters; and
- (e) boiling-water dispensers.

This Standard applies to water heaters using any type of heating, irrespective of the source of the heat energy imparted to the water, including electric resistance, gas, liquid or solid fuels, heat pumps, waste-heat recovery systems, solar energy or any other means of heating potable water.

In addition to the requirements of this Standard, additional requirements may be applicable for early childhood centres, primary and secondary schools and nursing homes or similar facilities for young, aged, sick or disabled persons as set out in AS/NZS 3500.

This Standard does not include requirements affecting the durability of water heaters, except those applying to safety devices. It does not apply to steam generators, sterilizers, washing machines, wash boilers, urns, kettles, or hot-water supply systems intended solely for space heating, swimming pools, spa pools or industrial processes.

NOTE: The installation of water heaters and hot-water supply systems is covered by AS/NZS 3500.4 and AS/NZS 3500.5.

2 NORMATIVE REFERENCES

The following documents are indispensable for the application of this Standard:

NOTE: References for informative purposes are included in the Bibliography.

AS	
1349	Bourdon tube pressure and vacuum gauges
1357	Valves primarily for use in heated water systems
1357.1	Part 1: Protection valves
3687	Water supply—Metallic fittings and end connectors
4552	Gas fired water heaters for hot water supply and/or central heating
AS/NZS	
2712	Solar and heat pump water heaters—Design and construction
3500	Plumbing and drainage
3500.0	Part 0: Glossary of terms
3500.4	Part 4: Heated water services