

# Australian/New Zealand Standard™

## Water efficient products—Rating and labelling



## **AS/NZS 6400:2005**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee WS-032, Water Efficient Appliances. It was approved on behalf of the Council of Standards Australia on 14 April 2005 and on behalf of the Council of Standards New Zealand on 22 April 2005.  
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The following are represented on Committee WS-032:

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Australian Industry Group  
Building Research Association of New Zealand Inc  
Consumer Electronics Suppliers Association  
Consumers' Federation of Australia  
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## Australian/New Zealand Standard™

# Water efficient products—Rating and labelling

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## FOREWORD

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee WS-032, Water Efficient Products to supersede AS/NZS 6400:2003.

*This Standard incorporates Amendment No. 1 (May 2006), Amendment No. 2 (August 2006), Amendment No. 3 (December 2006), Amendment No. 4 (June 2010) and Amendment No. 5 (June 2011). 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.*

This Standard forms a basis for the rating and labelling of a range of products under the mandatory Water Efficiency Labelling and Standards (WELS) Scheme, as required by the Australian Water Efficiency Labelling and Standards Act 2005 (the WELS Act). Throughout this Standard the requirements and dates that relate to the implementation of the WELS scheme apply in Australia only. For New Zealand, the requirements and implementation date will be addressed by a future amendment to this Standard.

The objectives of the WELS scheme are to encourage the development and marketing of water efficient products and enable consumers to clearly identify and purchase water efficient products.

All products specified under the WELS Act must be registered, rated and labelled according to the requirements of this Standard. All registrations are to be made through the WELS Regulator. The specified products are washing machines, dishwashers, lavatory equipment, showers, tap equipment and urinal equipment. Flow controllers may be voluntarily rated and labelled; however, if flow controllers are registered, rated and labelled, they are required to comply with all the relevant aspects of this Standard. Lavatory equipment is also required to comply with minimum water efficiency requirements set out in this Standard. This Standard also requires that products that do not comply with specific performance requirements will be given a zero rating and labelled accordingly or, in the case of lavatory equipment (see Clause 2.4.1), no label will be issued.

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The main changes in this Edition include the following:

- a) Clarification of cross-referencing of performance requirements of supporting product Standards.
- b) Revision of the ratings for lavatory equipment.
- c) Revision of the format for registration forms.
- d) Better articulation of the labelling requirements for plumbing products.
- e) Clarification of the term offer for retail sale, when the scheme commenced and when product registrations are to occur.

This Edition is published noting that further development of this Standard will continue. For instance, additional work is required to ensure that, in future, the performance test for showers includes a force of spray test, especially for the higher star ratings (i.e., for showers with low or very low flow rates).

This Standard is organized into 4 sections (for example, Section 1 is 'Scope and general'). Some sections are divided into clauses and further divided into subclauses (for example, Clause 2.1 contains Subclauses 2.1.1 to 2.1.6). Subclauses may be further divided into paragraphs.

The terms 'normative' and 'informative' have been used in this Standard to indicate 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

**Australian/New Zealand Standard**  
**Water efficient products—Rating and labelling**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies requirements for the rating of products for water efficiency, and includes the associated registration, labelling and, where applicable, minimum performance requirements.

This Standard applies to the following products as detailed in Section 2:

- (a) Showers
- (b) Dishwashers
- A5 (c) Clothes washing machines, including the washing function of combination washer/dryers.
- (d) Lavatory equipment
- (e) Urinal equipment
- (f) Tap equipment
- (g) Flow controllers
- A5 (h) The dryer function of combination washer/dryers.

**1.2 NORMATIVE REFERENCES**

The following documents are referred to in this Standard:

AS 1172.1—2005, *Water closets (WC), Part 1: Pans*

A3 AS 1172.2—1999, *Water closet (WC) pans of 6/3 L capacity or proven equivalent, Part 2: Cisterns*

A4 AS 5200.000—2006, *Technical specification for plumbing and drainage products, Part 000: Procedures for certification of plumbing and drainage products*

A4 AS/NZS 2007.1:2005, *Performance of household electrical appliances—Dishwashers, Part 1: Methods for measuring performance, energy and water consumption*

A4 AS/NZS 2007.2:2005, *Performance of household electrical appliances—Dishwashers, Part 2: Energy labelling requirements*

A4 AS/NZS 2040.1:2005, *Performance of household electrical appliances—Clothes washing machines, Part 1: Methods for measuring the performance, energy and water consumption*

AS/NZS 2040.2:2005, *Performance of household electrical appliances—Clothes washing machines, Part 2: Energy labelling requirements*

A5 AS/NZS 2442.1:1996, *Performance of household electrical appliances—Rotary clothes dryers, Part 1: Energy consumption and performance*

A5 | AS/NZS 2442.2:2000, *Performance of household electrical appliances—Rotary clothes dryers, Part 2: Energy labelling requirements*

AS/NZS 3500.0:2003, *Plumbing and drainage, Part 0: Glossary of terms*

AS/NZS 3500.1:2003, *Plumbing and drainage, Part 1: Water services*

A1 | AS/NZS 3662:2005<sup>\*)</sup>, *Performance of showers for bathing*

AS/NZS 3718:2005, *Water supply—Tap ware*

AS/NZS 3982:1996, *Urinals*

ATS 5200.004-2005, *Technical Specification for plumbing and drainage products — Urinal flushing cisterns*

ATS 5200.020—2004, *Technical Specification for plumbing and drainage products, Part 020: Flushing valves for water closets and urinals—For use with mains supply*

ATS 5200.021—2004, *Technical Specification for plumbing and drainage products, Part 021: Flushing valves for water closets and urinals—For use with break tank supply*

ATS 5200.030—2004, *Technical Specification for plumbing and drainage products, Part 030: Solenoid valves*

ATS 5200.037.2—2005, *Technical Specification for plumbing and drainage products, Part 037.2: Flow controllers—For use in heated or cold water plumbing systems*

A3 | PCA—2004, *Plumbing Code of Australia*

### 1.3 DEFINITIONS

A5 | For the purposes of this Standard, the definitions below apply. Where a term is not defined below, the definitions in AS 1172.1, AS 1172.2, AS/NZS 2007.1, AS/NZS 2040.1, AS/NZS 2442.1, AS/NZS 3500.0, AS/NZS 3662, AS/NZS 3718 and AS/NZS 3982 apply.

#### 1.3.1 abluion trough

A fixture or basin for holding water for washing the hands or face, whether with one tap to allow a single user or a number of taps spaced to allow simultaneous users.

A1 | **1.3.2 conformity assessment body (CAB)**

An organization, conducting assessments for product certification, that is—

- (a) registered with;
- (b) approved by; or
- (c) recognized by (e.g., by a multilateral recognition arrangement);

A4 | Joint Accreditation System of Australia and New Zealand (JAS-ANZ).

#### 1.3.3

**‘Void’**

#### 1.3.4 JAS-ANZ

A4 | Joint Accreditation System of Australia and New Zealand – the joint accreditation body for Australia and New Zealand for accreditation of inspection bodies and certification bodies including management systems, products and personnel.

<sup>\*)</sup> As amended.

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