



E-Institute

Official Newsletter of IPA

Building Ministers' Forum Agreement to an Improved WaterMark Scheme

At its meeting on 31 July 2015 the Building Ministers' Forum agreed to the retention of WaterMark as a mandatory plumbing product certification scheme with a range of improvements to enhance its effectiveness, including the move to a single level scheme and adoption of a full cost recovery model.

This decision represents a key milestone after over two years of work in reviewing the current scheme, consulting on possible changes and undertaking impact analysis in accordance with COAG best-practice regulatory principles.

For details about the improved WaterMark scheme, please refer to the outline in *Key Features of an Improved WaterMark Certification Scheme* (Attached).

It is intended the improved WaterMark scheme will be launched by 1 July 2016.

Implementation

In order to implement the improved mandatory WaterMark scheme, the following tasks will be undertaken as part of the 2015/16 ABCB work plan:

1. Implement the appropriate structure for the Scheme;

In this issue:

[Improved WaterMark Scheme](#)

[Professor John Swaffield - a lasting legacy](#)

[Fixture Unit Ratings](#)

[WELS Review](#)

[Standards Australia Update](#)

Please Support our Supporters

GOLD SPONSORS



SILVER SPONSORS

2. Align the scope of products to be included in the Scheme to the Scheme objectives;
3. Consolidate the Scheme rules, reference documents, agreements and procedures, including risk assessment process and specification development process;
4. Develop a new, simplified fee regime;
5. Update, improve and 'value add' the product database; and
6. Launch 'Improved Scheme' with appropriate transition arrangements.



BRONZE SPONSORS

Galvin Engineering

GWA Bathrooms & Kitchens

**LWG Zurn Australia
Specialised Plumbing Products**

Galvins Plumbing Supplies

Enware Australia

Once the above items have been completed the following tasks can be finalised:

7. Implement communication, marketing and education strategies;
8. Review plumbing product status, based on risk assessment process (2016-2017); and
9. Undertake comprehensive review of technical specifications (2016-2021).

The current Scheme will continue to be administered in the interim.

Ongoing Consultation

The ABCB Office will continue to engage with stakeholders as details of the improved scheme are developed, including appropriate transitional arrangements. Ongoing stakeholder consultation will be in two forms as follows:

Regular Events and Consultation Activities

Scheme stakeholders will receive updates and/or opportunities to provide comment and input at the following scheduled periodic meetings and events:

- ABCB Board meetings;
- Plumbing Code Committee meetings;
- Plumbing Administrations meetings;
- WaterMark Conformity Assessment Body (WMCAB) forums; and
- Annual National Construction Code Information Seminars.

Specific Consultation Activities

A number of specific consultation activities will enable the ABCB Office to engage with and provide information to relevant Scheme stakeholders as details are developed:

- The WaterMark Review Working Group is being retained to provide input during the implementation phase;

- On-line stakeholder surveys seeking views on specific aspects (such as the product database);
- Direct engagement with State and Territory Plumbing Administrations, Joint Accreditation System of Australia and New Zealand (JAS-ANZ), Standards Australia, National Associations of Testing Authorities Australia (NATA), WMCABs, testing laboratories and industry stakeholders as required;
- Information and updates will be posted on the ABCB website www.abcb.gov.au; and
- Articles will be included in ABCB publications, eg Australian Building Regulation Bulletin and ABR Online, and stakeholder publications as required.

Please feel free to distribute this information to any other interested parties.

Australian Building Codes Board

Book Launch; Transient Free Surface Flows in Building Drainage Systems by Professor John Swaffield

Many of our readers will remember the work in drainage design of the late Professor John Swaffield at Heriot-Watt University. In 2010 he published the first of two books Transient Airflows in Building Drainage Systems and commenced the companion book Transient Free Surface Flows in Building Drainage Systems. Sadly, John passed away before this work could be finished and now his associate Michael Gormley has completed this work. A book launch event by the Society of Public Health Engineers is to be held on 6 October 2015 at the Royal Society, Carlton House Terrace London.

For further information visit www.cibse.org/training-events

IPA Secretary accepts invitation to join City of London Livery Company:

Stephen Movley Hon.FIPA, Secretary and past President of The Institute of Plumbing Australia was recently inducted to membership of the Worshipful Company of Plumbers a 650-year-old City of London Livery Company. After agreeing to the membership proposal in late 2013 and following several failed attempts to divert through London to take the Oath of International Freeman; Stephen became the first to be inducted entirely remotely using the wonders of modern technology spanning half way round the globe to present before Mr Steve Hodgkinson, Master and Air Cdre Paul Nash OBE, Clerk of the company and swear *The Oath of International Freeman of the Art or Mystery of Plummery of the City of London*.

Stephen said "I am proud to have been invited to join such an ancient and august body as the plumbers' company and having read its history 1365 – 2000, presented to me at induction, the company embodies all the ideals that I have endeavoured to follow in what by comparison is a relatively short history of some fifty-eight years in plumbing".

For more about the Worshipful Company of Plumbers see www.plumberscompany.org.uk

Fixture Unit Ratings:

A number of people are looking at the mismatch between current Fixture Unit Ratings used in various publications and the current low flow reality. If you have an interest in understanding the history of fixture unit ratings and the current thinking of where to now the ABCB discussion paper below is a great place to start. Also the Standards Australia Working Group on Circulatory Heated Water Systems is looking at FUR's for heated water and will welcome your input, simply email any ideas to secretary@plumbing.org.au

ABCB Fixture unit ratings review (from www.abcb.gov.au):

Fixture unit ratings are given to fixture types for the purpose of sanitary plumbing and drainage design in Australia.

The ABCB discussion paper covers the following:

- The origin basis and value of the current fixture units used in hydraulic design in Australia;
- An indication of the basis and value of fixture unit ratings used overseas;
- Similarities and differences of overseas ratings compared to the Australian context; and
- An overview of the system design methodology using the current fixture unit ratings, including calculation methods and design principles.

The report also includes discussion on:

- the comparison between original and current fixture water usage rates (i.e. flush volumes and flow rates);
- the role, if any, of the frequency of use of fixtures and appliances in fixture unit calculations; and
- the accuracy and suitability of the current ratings tables, with comment made on identified issues and recommendations on the potential for further work.

The [Discussion Paper](#) has recently been released in relation to this project. Comments close 20 November, 2015.



The Hon Bob Baldwin MP
Parliamentary Secretary to the Minister for the
Environment Federal Member for Paterson

MEDIA RELEASE

19 August 2015

WELS review confirms scheme's effectiveness

The second independent review of Australia's Water Efficiency Labelling and Standards (WELS) Scheme has found that the scheme has been effective in delivering substantial water savings.

The review was tabled in Parliament today by Parliamentary Secretary to the Minister for the Environment Bob Baldwin, who said there was widespread support for the scheme and the role it plays in water management and conservation across Australia.

"The review considered the appropriateness of the regulatory impact on industry and identified opportunities to further streamline the operation of the WELS Scheme while maintaining environmental outcomes," Mr Baldwin said.

"I am pleased to report that a number of the recommendations are already being progressed and that the review found WELS is achieving the objectives of the *Water Efficiency and Labelling Standards Act 2005*.

"Other recommendations include a number of changes in order to streamline operations and reduce industry compliance costs.

"A joint government response to the review will be developed in the coming months and will take into account the review findings.

"I would like to take this opportunity to thank the independent reviewer, Tom Mollenkopf, whose extensive background in the water sector ensured the review was comprehensive and whose findings will allow us to strengthen the programme into the future.

"Water efficient appliances save Australians 100 gigalitres of water per year and more than \$500 million in savings through reduced water and electricity bills."

The WELS Scheme aims to reduce domestic water consumption by providing consumers with information about the water use of products they purchase, leading to an increase in the economic efficiency of water use throughout Australia.

For more information go to: <http://www.waterrating.gov.au/consultation/2015-wels-scheme-review>

STANDARDS

Australia

MEDIA RELEASE

NEW INSTALLATION CODE FOR METAL ROOF AND WALL CLADDING

Standards Australia has published the third edition of Handbook (HB) 39: Installation code for metal roof and wall cladding, which was last published in 1997. The 2015 edition supersedes the 1997 version.

A joint project between the Victorian Building Authority, the Australian Steel Institute and Standards Australia, the 2015 edition of HB 39 is based on contributions received from installers, manufacturers, educational institutes and industry training organisations, and peer reviewed by Standards Australia Technical Committee WS-014, Plumbing and Drainage.

The intent of the Handbook is to provide guidelines and a code of good practice for industry training providers, the Australian metal roofing installation industry and roofing contractors in any state or territory.

Some of the key updates are:

- Introduction of new aluminium/zinc/magnesium alloy-coated steel technologies that are designed to protect steel roofing from corrosion.
- Introduction of insulated roof panels, which are laminated panels manufactured from different materials, permanently bonded together so that they act as a single element. Installers are to refer to manufacturer's specifications when selecting, installing and working safely with these products.
- Practitioners are referred where applicable to AS/NZS 3500.3, Plumbing and drainage Part 3: Stormwater drainage; AS/NZS 3500.5, Plumbing and drainage Part 5: Housing installations; and HB 114, Guidelines for the design of eaves and box gutters. These publications include important criteria for roof drainage, roof flashings and cappings, and should be read in conjunction with this Handbook.

Mr Jarrod Edwards, Director of Technical and Regulation at the Victorian Building Authority, said:

"The updated Handbook is a real collaborative effort between the industry, regulators, and practitioners. It aims to provide guidelines to resolve real-world installation problems and I am confident that the Handbook will serve as a useful resource for all in the industry."

Dr Bronwyn Evans, Chief Executive Officer of Standards Australia, said: "In line with our mission to develop contemporary technical documents that benefit the community, the revised Handbook 39 has been updated to take into account new technologies and developments. It is a culmination of the experience and expertise of many in the industry and represents a consensus view on good installation practices."

The contribution of the Master Plumbers & Mechanical Services Association of Australia, the Association of Hydraulic Consultants Australia and the steel roof installation industry toward the development of the Handbook is acknowledged

ENDS.

Excerpt from Standards Australia Sector Update August 2015 - Water and Waste Services:

Recently Published Documents

Below is a list of Australian Standards published for the Water and Waste Services Sector between 1 July 2014 and 5 August 2015.

Copies of these Australian Standards are available for purchase from Standards Australia's publisher, SAI Global: www.saiglobal.com/shop.

Should you wish to provide feedback regarding the publication please do so by contacting the Standards Australia Customer Information Service.

Specifications for rainwater goods, accessories and fasteners - Part 1: Metal shape or sheet rainwater goods, metal accessories and fasteners

Product Designation: AS 2179.1

Scope: Specifies requirements for prepainted metal, metal and organic film/metal laminated shape or sheet rainwater goods, and metal accessories and fasteners.

History: First published as part of AS CS3—1931. Revised and redesignated in part as AS 2179—1978. Revised and designated in part as AS 2179—1986. Revised and redesignated in part as AS/NZS 2179.1:1994. Second edition 2014.

Ductile iron pipes and fittings

Product Designation: AS/NZS 2280

Scope: Specifies requirements for ductile iron pressure pipes centrifugally cast in moulds, and ductile iron fittings of nominal sizes up to and including DN 750.

History: Originated in Australia as AS 2280—1979. Previous edition AS/NZS 2280:2012. Eighth edition 2014.

Plumbing and drainage - Part 3: Stormwater drainage

Product Designation: AS/NZS 3500.3

Scope: Sets out requirements for materials, design, installation and testing of roof drainage systems, surface drainage systems and subsoil drainage systems to a point of connection.

History: First published in part as part of AS CS 3—1931. Revised and redesignated as AS 2179—1978 and AS 2180—1978. AS 2180—1978 and part of AS 2179—1978 revised and designated AS 2180—1986. AS 3500.3 first published 1990. AS 2180—1986 and AS 3500.3—1990 jointly revised, amalgamated and redesignated in part as AS 3500.3.1—1998 and AS/NZS 3500.3.2:1998. AS 3500.3.1—1998 and AS/NZS 3500.3.2:1998 jointly revised and redesignated as AS/NZS 3500.3:2003. Second edition 2015.

Plumbing and drainage - Part 1: Water services

Product Designation: AS/NZS 3500.1

Scope: Sets out requirements for the installation of water services from the point of connection to the network utility's water supply or from an alternative drinking water supply to the points of discharge. This Standard applies to new installations as well as alterations, additions and repairs to existing installations.

History: First published as AS 3500.1—1990. Second edition 1992. Jointly revised and redesignated AS/NZS 3500.1.2:1998. Jointly revised and redesignated AS/NZS 3500.1:2003. Second edition 2015.

Plumbing and drainage - Part 2: Sanitary plumbing and drainage

Product Designation: AS/NZS 3500.2

Scope: Specifies requirements for the design and installation of sanitary plumbing and drainage from fixtures to a sewer, common effluent system or an on-site wastewater management system. Applies to new installations, additions or repairs to existing installations. History: First published as AS 3500.2—1990. AS 3500.2—1990 jointly revised and redesignated AS/NZS 3500.2.2:1996. AS/NZS 3500.2.2 jointly revised and redesignated AS/NZS 3500.2:2003. Second edition 2015.

Installation code for metal roof and wall cladding

Product Designation: SA HB 39

Scope: Provides information and guidelines on the selection, performance and installation of metal roofing and wall cladding. The measures contained will provide a weatherproof exterior and ensure that all rainwater is directed to the stormwater drainage system.

History: First published as HB 39—1992. Second edition 1997. Third edition 2015.

Standards open for public comment:

DR AS/NZS 5601.1:2013 Amd 2:2015

Gas installations - General installations

Standards Australia Public Comment Closing Date 19 October 2015

DR AS/NZS 5601.2:2013 Amd 1:2015

Gas installations - LP Gas installations in caravans and boats for non-propulsive purposes

Standards Australia Public Comment Closing Date 19 October 2015

The full list of drafts for public comment, across all sectors, can also be found by visiting www.standards.org.au then clicking on Drafts for Public Comment.

Enware Aquablend eSQX Touch Free point of use Thermostatic Mixers



Australia's first and most technically advanced touch free point of use thermostatic mixer solution.

Designed to satisfy the most demanding healthcare facilities needs. Directly dispensing controlled temperature heated water, eSQX improves hygiene and user safety with touch free operation and offers further infection control by ensuring the reduction of bacterial growth in supply lines.

Temperature is set at installation – ensuring the ongoing safe delivery of warm water. Temperature can also be adjusted by qualified personnel after installation.

With superior durability, energy efficiency plus seamless compatibility with Type A and Type B wash basins – eSQX is an all-round solution for clinical, procedural and surgical hand wash applications. In addition, eSQX is perfectly suited for food preparation and public washroom environments.

ACTIVE SENSE - Touch free washing using the sensor below the outlet. Ideal for general hand hygiene within health care facilities and food preparation applications.

WAVE ON WAVE OFF Above outlet sensor location is purpose designed for clinical hand to elbow washing. A touch free, hygienic and effective solution for surgical scrub and Type A and Type B wash stations.

KEY BENEFITS:

- Touch free infrared intelligence is just the beginning.
- The innovative thermostatic mixing valve brings heated water directly to the mixer itself – eliminating warm water dead legs and subsequent
- Legionella risk whilst enhancing user comfort and safety.
- Water and energy savings are maximised with a smart, self-purging
- 12-hour flush cycle that expels stagnant water – minimising the risk of bacteria growth in the supply lines.

<http://www.enware.com.au/default.aspx?ArticleID=918>

New Shopping Cart makes it easier to purchase and download the E-Book

Selection and Sizing of Copper Tubes for Water Piping Systems by Barrie Smith

E-Book sales are now automated from 20 June 2014. Website address will remain as www.plumbing.org.au and follow the links to Technical Books through to the shopping cart and pay by PayPal or Credit Card for immediate download.

Companion Spreadsheet files utilising the E-Book are still freely available as an additional download when you complete your shopping cart journey.

Your input into this Newsletter and other IPA matters is always welcome and in fact sort after. If you are not already a member why not join and really help us provide a voice for plumbers and plumbing. Simply email the Secretary below.

Contact

Follow us

Comments on matters raised in E-INSTITUTE or suggestions for future issues are welcome and may be sent to the Editor at:

The Institute of Plumbing Australia Inc.

P O Box 2005

MARMION

Western Australia 6020

FAX: 08 9448 0420

EMAIL: secretary@plumbing.org.au

WEB: www.plumbing.org.au



If you no longer wish to receive these emails, please reply to this message with "Unsubscribe" in the subject line or simply click [unsubscribe](#).