1 Introduction

a. This document is applicable for the following:
   i. Registered suppliers (manufacturers or importers which includes parallel importers, retailers, sole agents, distributors, wholesalers, etc.) of water fittings, appliances, apparatuses and products which are required to be labelled for water efficiency;
   ii. Testing laboratories; and
   iii. Accredited Certification Bodies for WELS

b. All water fittings such as pipes, pipe fittings, valves, taps/mixers, urinal flush valves/waterless urinal, flush valves for WCs, dual-flush low capacity flushing cisterns, etc. for use in potable water service installations in Singapore shall comply with the standards and requirements stipulated by PUB before they can be offered-for-sale, displayed, advertised for sale/supply in Singapore. Additionally, water fittings such as taps/mixers, dual-flush low capacity flushing cisterns, urinal flush valves/ waterless urinal and appliance such as clothes washing machines shall be labelled under the Mandatory Water Efficiency Labelling Scheme (WELS) before they can be offered-for-sale, displayed, advertised for sale/supply in Singapore.

c. Showerheads are under the Voluntary WELS.

d. From 1 Oct 2018, the Mandatory WELS will be extended to include dishwashers for household use.

e. The purpose of WELS is to:
   i. Conserve water by further reducing water consumption through greater awareness and use of water efficient water fittings, appliances, apparatuses and products.
   ii. Provide water efficiency and performance information to purchasers of water fittings, appliances, apparatuses or products so that they can make a well informed purchasing decision.
   iii. Provide consumers with the necessary information on the water efficiency of the labelled water fitting, appliance, apparatus or product and allow them to compare it to other similar models in the market places, before deciding on the purchase.
   iv. Clearly differentiate the less water efficient water fittings, appliances, apparatuses or products from the more water efficient ones.
   v. Encourage vendors to offer more water efficient water fittings, appliances, apparatuses and products in Singapore and mould consumer preference towards more water efficient water fittings, appliances, apparatuses and products.
vi. Stimulate the introduction of cost-effective and water efficient technologies.

vii. Promote the adoption of efficient and effective water-use technologies.

2 Criteria to become an Accredited Certification Body (CB) for WELS

a. CBs who are interested to provide certification services for WELS products shall fulfill all the criteria and requirements specified by PUB.

b. CBs shall be accredited by Singapore Accreditation Council (SAC) in accordance with ISO/IEC 17065 and SAC CT 19 for ISO/IEC Type 1a certification scheme (based on Type Testing);

c. Notwithstanding the above, PUB may request for additional information or impose other requirements on the CBs.
3 Requirements for Registration of Water Fitting, Appliance, Apparatus or Product under WELS

a. With effect from 1 April 2018, all water fittings, appliances, apparatuses and products covered under WELS, shall be certified by an Accredited CB for WELS. The workflow for certification of a water fitting, appliance, apparatus and products by an Accredited CB for WELS is shown as below.

\[\text{Start}\]

- Supplier submits to a CB to certify product under WELS

- CB checks test reports for compliance with *PUB's stipulated standards and water efficiency requirements.

- CB issues Certificate of Conformity on performance, public health, safety and water efficiency.

- CB maintains register of product information, test reports, suppliers' info, label information, Technical File of product and other information as required by PUB

- CB uploads all information of certified product, suppliers' info, test reports, label and label information and other information required by PUB into PUB's front end system.

- PUB sends label to CB and publish product in PUB's WELS website.

- CB issues label to supplier.

- End

*Stipulated standards of water fittings booklet is downloadable from PUB's website at www.pub.gov.sg.

b. Prior to certification by an Accredited CB, the water fitting, appliance, apparatus and product to be labelled under the WELS shall be tested for compliance with PUB's stipulated standards and requirements under Regulation 5 of the Public Utilities (Water Supply) Regulations. This is to address water contamination, water wastage and durability/reliability aspects of the product. For PUB's stipulated standards and requirements for water fittings, please refer to PUB's website at www.pub.gov.sg.
PUB's Stipulated standards of water fittings booklet is downloadable from PUB's website at www.pub.gov.sg.

c. The water fitting, appliance, apparatus and product shall be certified by the Accredited CB for WELS in accordance with SAC CT 19 for ISO/IEC Type 1a certification scheme (based on Type Testing);

d. The water efficiency of a water fitting, appliance, apparatus and product shall be determined by the Accredited CB in accordance with test standard or method as specified in Part 1 and Part 3 of the Second Schedule of the Public Utilities (Water Supply) Regulations (http://statutes.agc.gov.sg). A summary of the water efficiency rating and requirements are shown in Clause 19. [Amended on 4 May 18]

e. Showerheads shall be tested in accordance with the test standard or method as specified in Annex 1c. The water efficiency shall be determined by the Accredited CB in accordance with the rating and requirements shown in Clause 19. Please also refer to Clause 5b. [Amended on 4 May 18]

f. The Accredited CB shall register the product details onto PUB’s WELS system at www.pub.gov.sg/wels within 7 days from date of Certificate of Conformity (CoC).

g. The water efficiency label which will be provided by PUB, will be issued by the accredited CB for the product. The Accredited CB shall keep track and maintain the register of successful applicants/products with corresponding registration numbers.

h. A water fitting, appliance, apparatus and product is deemed to be registered under WELS if it is published in PUB’s WELS website at www.pub.gov.sg/wels.

i. PUB reserves the right to amend existing and introduce new legislations including requirements and guidelines specific to particular water fittings, appliances, apparatus and products under WELS.

j. With effect 1 Oct 2018, the Mandatory WELS will be extended to include dishwashers intended for household use. All dishwashers to be offered, displayed or advertised for sale and supply in Singapore shall be affixed with the water efficiency label. The stipulated test standard for water consumption test is specified in Annex 1c. The water efficiency shall be determined by the Accredited CB in accordance with the rating and requirements shown in Clause 19. [Amended on 4 May 18]

k. With effect from 1 Jan 2022, the Mandatory WELS will be extended to include WC flush valves. All WC flush valves being offered-for-sale, displayed, advertised for sale or supply in Singapore:

   i. shall have a flush volume of not more than 4.0 litres per flush; and
   ii. shall be of minimum 2-tick or more water efficiency rating under the MWELS.
The maximum flush volume shall be not more than 4.0 litres per flush i.e. no fluctuations of more than 4.0 litres per flush is allowed at any of test pressures as stipulated in the PUB S&R. Please refer to Table 2 and Table 5 for water efficiency ratings and requirements. WC flush valves with flush volumes of lower than 3.5 litres (i.e. <3.5 litres) per full flush shall be subjected to WC drainline transportation test as stipulated in Clause 7.4 of SS 574:Part 1:2012. For WC flush valves with manually-operated dual-flush mode, the volume of discharge for the reduced flush shall not be more than 3.0 litres. Please also refer to PUB S&R under WC flush valves for the full test requirements.

4 Testing and Compliance of WELS products

a. Before a water fitting appliance, apparatus or product can be considered for registration under WELS, it is mandatory for the model to comply with and be supported with the relevant test reports showing compliance with PUB’s stipulated standards and requirements for that water fitting, appliance, apparatus or product. For PUB’s stipulation of standards and requirements, please refer to PUB’s website at www.pub.gov.sg. This is to address water contamination, water wastage and durability/reliability aspects of the product.

b. The water fitting, appliance, apparatus or product is deemed to comply with the PUB’s stipulated standards and requirements if it is tested as complying with such Standards by a testing laboratory accredited by the Singapore Accreditation Council (SAC) or its Mutual Recognition Arrangement (MRA) partners. With effect from 1 Sep 2014 (date printed on test report), only test reports issued by a testing laboratory accredited by the SAC or its MRA partners must bear the SAC-SINGLAS mark or the mark of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC-MRA) signatory respectively are accepted. Every model shall be accompanied with complete and valid test reports showing compliance with PUB’s stipulated standards and requirements.

c. Any test report issued by a testing laboratory (notwithstanding that the testing laboratory is accredited by the SAC or its MRA partners) which does not bear the SAC-SINGLAS mark or the mark of the ILAC-MRA signatory is not acceptable.

d. Suppliers can adopt the same flow rate test result/report for different models of taps and mixers without additional testing if they are of similar designs with the same flow rate performance. Taps and mixers of similar designs with the same flow rate performance include those which have the same body design but with different colours, finishing or handle designs that do not affect the hydraulic performance of the taps and mixers.

e. For list of SAC-SINGLAS accredited test laboratories and its MRA partners, please visit their website at www.sac-accreditation.gov.sg/.
f. From 1 Aug 2019 (date of test report), a test lab who sub-contracts the testing to accredited test labs must also issue the accredited test reports which bear SAC-SINGLAS logo or the logo of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC-MRA) respectively to the suppliers. Suppliers are advised to request a copy of the accredited test reports from their testing service providers to ensure compliance with PUB’s stipulated standards and requirements. Existing test reports with no SAC and ILAC-MRA logo from test lab who subcontracts the testing prior 1 Aug 2019 (date of test report), can continue to be accepted by PUB, provided that the test(s) was/were conducted by an accredited test lab.

5 Test Methods and Additional Requirements for Water Efficiency.

a. Products which are covered under the Mandatory WELS shall be tested in accordance with the test methods and meet the requirements as stipulated in Part 1 of Second Schedule of the Public Utilities (Water Supply) Regulations. Please refer to Annexes 1a and 1b. Products shall also be tested for compliance to PUB’s stipulated standards and requirements as specified in Clause 3b.

b. Products which are covered under the Voluntary WELS (i.e. showerheads) shall be tested in accordance with the test methods and meet the requirements as shown in Annex 1c.

c. Waterless urinal is required to comply with the test method and performance requirements as specified in Section 6 of ASME A112.19-2016 (Vitreous China Nonwater Urinal). The test requirements are as follows:
   i. Resistance to Stoppage
   ii. Tightness Test of Removable Trap
   iii. Evaluation Testing for Ammonia
   iv. Testing of Urinal with an Optional Drain-Cleansing Action

6 Requirements and Application by Registered Supplier

a. The registered supplier must be a Singapore-based company registered with the Accounting and Corporate Regulatory Authority (ACRA) in Singapore. All foreign companies (i.e. overseas suppliers) not registered with ACRA shall appoint a Singapore-based agent or representative company registered with ACRA to do the application and to follow up on queries/complaints and monitor the products supplied by them.

b. Accredited CB shall ensure that every model submitted to them for certification shall contain the information/documents as listed in Table 1 below.
| Table 1 |
|------------------|------------------|
| **Registered Supplier information** | |
| Date of application | |
| Name of Registered Supplier (based on ACRA records). | |
| Office address | |
| Unique Entity Number (UEN) of the registered supplier issued by the ACRA | |
| Name and title (designation) of the person appointed by the supplier to be in charge of submission of application to the Accredited CB. | |
| **Technical File of Product** | |
| Technical File containing: | |
| Complete and valid test reports in full colour. Test reports include accredited test reports of testing which the test lab has subcontracted to accredited test labs. | |
| Complete checklist of Tests Reports and Flow Rates | |
| Drawings and list of parts/material used in the fitting (eg. inlet of flush valve of LCFC, cartridge model no., etc.) | |
| Manufacturer’s declaration letter if the parts/materials/mechanisms used are the same | |
| Letter of Authorisation to use test reports | |
| Information on manufacturer (i.e. company name, address, factory that produce or manufacture the product.) Manufacturer’s information, if stated in the test reports, are also acceptable. If manufacturer’s information is not stated in the test reports, then CB should use the manufacturer’s information provided by supplier in CB’s application form. | |
| **Product information** | |
| Type of product | |
| Brand | |
| Model no. | |
| - Flowrate (applicable for taps/mixers and showerheads) | |
| - Flow timing duration (applicable for mechanical and sensor self-closing delayed-action taps) | |
| - Flush volume (applicable for dual-flush low capacity flushing cisterns and urinal flush valves/waterless urinals) | |
| - Water Consumption (applicable for clothes washing machines) | |
| Water Efficiency Rating (refer to Table 2 for rating requirements) | |
| WELS Registration No. (refer to Annex 3a. Registration no. will be issued by PUB) | |
| WELS Registration Date | |
| Date of Certificate of Conformity (CoC) | |
| Clear and colour photograph showing the side / front elevation view of the product. | |
| **Other documents to be attached** | |
| ACRA bizfile of registered supplier (only if there are changes after first submission) | |
| WELS label (Upon successful and complete submission by the accredited CB to PUB, the label will be provided to the CB. The accredited CB shall then issue the label provided by PUB to the supplier within 7 working days. Hence, CB shall keep in it records a copy of the label and proof of issuance of label to the supplier.) | |
| Certificate of Conformity (CoC) printed in full size and colour | |
| Colour photo of the product | |
| Declaration of wash mode for normally-soiled clothes (for clothes washing machines). | |
The programme selected on the test washing machine and any associated settings shall be in accordance with the manufacturer’s instructions for the programme recommended in the product literature for a normally soiled load at rated load capacity. The programme selected on the test washing machine (with any associated settings) shall be reported in the test reports. The selected programme shall be indicated along with the water consumption figures on the Water Efficiency Label. The supplier is required to show proof of programme recommendation in either Product Literature or Instruction Manual or User Manual when registering for water efficiency labelling. Alternatively, supplier can also submit its company letterhead in original copy to declare the programme recommended for normally soiled clothes.  The registered washing machine shall be accompanied with Product Literature or Instruction Manual or Supplier’s declaration in original company letterhead, when deliver to the customer for customer’s information and awareness.

Declaration of wash programme for normally-soiled tableware (for dishwashers). The programme selected on the test dishwasher and any associated settings shall be in accordance with the manufacturer’s instructions for the programme recommended in the product literature for a normally-soiled tableware at rated dishwasher capacity. The programme selected on the test dishwasher (with any associated settings) shall be reported in the test reports. The selected programme shall be indicated along with the water consumption figures on the Water Efficiency Label. The supplier is required to show proof of programme recommendation in either Product Literature or Instruction Manual or User Manual when registering for water efficiency labelling. Alternatively, supplier can also submit its company letterhead in original copy to declare the programme recommended for normally-soiled tableware.  The registered dishwasher shall be accompanied with Product Literature or Instruction Manual or Supplier’s declaration in original company letterhead, when deliver to the customer for customer’s information and awareness.

[Amended on 4 May 18]

Registered Supplier’s declaration whether registered product is still being supplied in Singapore.

<table>
<thead>
<tr>
<th>Information on Accredited CB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of Accredited CB</td>
</tr>
<tr>
<td>Address of Accredited CB</td>
</tr>
<tr>
<td>Unique Entity Number (UEN) of the Accredited CB issued by the ACRA</td>
</tr>
<tr>
<td>Name of Reviewer / Person making certification decision</td>
</tr>
<tr>
<td>Name of Person who signed the CoC</td>
</tr>
</tbody>
</table>

| Designation |
| Office No. |
| Mobile No. |

**Modification of registered product. Please read Clause 14.**

| Copy of Test reports in full colour |
| Manufacturer’s declaration, if any. |
| Updated checklist of test reports and flow rate |
| Previous and New WELS Rating / Water Consumption / Volume of discharge |
| New Certificate of Conformity (CoC) |
| Update photo of the product (in colour) |
c. The list in the above Table is not exhaustive. PUB may require any other information to be kept and maintained by the accredited CB as and when it deems necessary.

d. All information and documents required shall be in English language.

7 Issuance of Certificate of Conformity by Accredited CB for WELS

a. The Certificate of Conformity issued by the accredited CB shall be in accordance with the format in Annexes 2a and 2b.

b. The information stated in the Certificate of Conformity of a water fitting, apparatus, appliance or product must be correct, complete and valid.

c. Every water efficiency label issued by accredited CB shall be for one model only.

d. The Reviewer of test reports and the person making certification decision/person who signed on the CoC shall not be the same person. Both shall meet the criteria specified in CT19 SAC Criteria for Certification Bodies (Water Efficiency Labelling Scheme).

e. The brand and all specific clauses of the standards shall be reflected in the main page of CoC;

f. Every CoC shall only cover 1 brand and product(s) which are under the same stipulated product standard. E.g. Any product or combination of types of taps/mixers from 1(a) to (l) under BS EN 200 in Annex 1A of WELS Guidebook.

g. More than 1 product type under the same brand and product standard may be certified under the same CoC provided that any of the integral components for example ceramic cartridge or body material of tap/mixer is the same.

h. All reference test reports, if any, shall be clearly reflected in the Appendix of the CoC for better traceability of records for all models covered in the CoC.

8 Registered Supplier Seeking Multiple Certifications from CB*

a. A registered supplier who seeks certification of their product with an accredited CB shall declare the status of certification he had with the previous CB, if any.

b. If the registered supplier has previously sought certification with a CB but failed in its certification attempt, he is required to submit the latest report of the outcome of his application from the previous CB to the new CB for their information and highlighted any modifications made to the product to be certified by the new CB.
c. However, if the registered supplier declares that he has yet to seek certification with any CB, it shall be incumbent upon the CB that they shall take due diligent measures such as:

i) confirming the status of the registered supplier from the directory of certified and failure products maintained by the other accredited CBs;

or

ii) subjecting the registered supplier into making a declaration of their status at the point of application.

d. If the CB subsequently finds out that the registered supplier has earlier approached a CB but failed in its certification attempt, the CB shall require the registered supplier to:

i) submit the latest report prepared by the previous CB;

and

ii) highlight any modifications made to the product.

e. If the registered supplier fails to do item (d), the CB shall reject the registered supplier’s application for certification of this product.

f. All CBs shall keep track and maintain the register of both successful and rejected products.

*CB – Accredited CB for WELS

9 Issuance and Use of Water Efficiency Labels

a. The water efficiency label will be provided by PUB to the accredited CB be in .pdf format. The accredited CB shall then issue the label provided by PUB to the supplier within 7 working days and shall keep in its records the proof of issuance of label to the supplier. Please refer to Annex 3f for Restrictions relating to Water Efficiency Label.

b. The water efficiency label will only be provided by PUB if the model has been certified by the accredited CB in accordance with SAC CT 19 for ISO/IEC Type 1a certification scheme (based on Type Testing) and all information and documents have been successfully and completely submitted by the accredited CB.

c. The water efficiency label shall be in accordance with Part 2 of Second Schedule of the Public Utilities (Water Supply) Regulations. All information provided by the accredited CB on the water efficiency label must be correct, complete and valid.

d. The registration number format shall be in XXX-YYYY/000000/ZZZ in accordance with Annex 3a.
10  PUB’s WELS System

a. Accredited CB shall register the product and submit the correct, complete and valid product information, Certificate of Conformity (CoC), Technical File and other documents required by PUB for the model onto PUB’s WELS system within 7 days from the date of issue of CoC at www.pub.gov.sg/wels. The process is shown in Annex 5.

b. For modifications of registered products that affect water efficiency, Accredited CB shall also register the product and submit product information, Certificate of Conformity (CoC), Technical File and other documents required by PUB for the model into PUB’s WELS system within 7 days from the date of certification at www.pub.gov.sg/wels. Please refer to Clause 14a on modifications of registered products. [Amended on 4 May 18]

c. Notwithstanding the above, PUB may request for additional information and/or documents from the accredited CB or supplier.

11. Design of Label

a. The designs of the labels for the Mandatory WELS are specified in Part 2 of Second Schedule of the Public Utilities (Water Supply) Regulations.

b. The designs of the labels for different tick ratings for different products are given in Annexes 3b, 3c and 3d.

12. Use of the Water Efficiency Label

a. The water efficiency label shall be affixed to each water fitting, appliance, apparatus or product model displayed for sale or supply. The water efficiency label shall also be fixed to each water fitting, appliance, apparatus or product model or on its packaging at the point of sale or supply or offer for sale or supply. The label shall be fixed such that it is prominent to let consumers view and compare with ease. The markings and information on the label shall not be removed, defaced or obscured in any manner that may confuse and/or mislead the consumer.

b. The water efficiency label shall not be defaced, obstructed, removed, misused, forged, falsified or altered.

13. Use of the Water Efficiency Label in Advertisements and Publicity Materials

a. The water efficiency label shall be used only for the registered models as published in PUB’s website.
b. Advertisements for water fittings, appliances, apparatus or products labelled under the MWELS in all forms of advertisements that has any visual elements which includes newspapers, brochures, catalogues, publicity materials, websites, TV advertisements and any other visual elements shall display the water efficiency label for each and every water fitting, appliance, apparatus or product model featured next to the image or description of the water fitting.

c. When used in advertisements as described in 12(b), the water efficiency label of each registered model shall be separately displayed if there is more than one model being advertised or promoted.

d. Where it is not practicable to display in the advertisement the water efficiency label for each and every water fitting, appliance, apparatus or product model featured as stated in 12(b), all information contained in the Water Efficiency Label shall be stated in the advertisement.

e. The use of the water efficiency label in advertisements and publicity materials shall be in accordance with Regulations 40AB and 40AD of the Public Utilities (Water Supply) Regulations. Please refer to Annexes 3e and 3f for extracted Clauses of 40AB and 40AD.

f. Examples of display of 4 essential water efficiency label information for printed advertisements is in Annexes 6a and 6b.

14. Modifications to Registered Water Fitting, Appliance, Apparatus or Product Model

a. For a modification affecting the water efficiency of the registered water fitting, the registered supplier must separately register the water fitting under Regulation 40AE (3). Re-registration of the model is required. This means the modified registered product is required to be re-certified by an Accredited CB. The Accredited CB shall submit to PUB via WELS website at www.pub.gov.sg/wels for the re-registration.

e.g. upgrade from 1-tick to 2-tick where there is no change in product except for change of flow regulator. The 2-tick model replaces the 1-tick model and new WELS registration no. will be issued. The 1-tick model will be removed from the WELS register.

b. For a modification not affecting the water efficiency of the registered water fitting, the registered supplier must notify PUB in writing of the modification and gives PUB the particulars of the modification required by PUB. The registered supplier is to approach the SAC-accredited test laboratory or its MRA partners with the supporting documents to make the administrative changes in the test report. The registered supplier would then notify PUB of the modifications and submit supporting documents/revised test reports. No re-registration of the model is required.

e.g. change of brand name, model no. etc. where there is no change in product itself.
15. Change of Distributorship for Registered Products

a. When Supplier A (i.e. existing supplier) or B (new supplier taking over) notifies PUB on change of distributorship of the registered products, the following documents are required to be submitted to PUB:

1) A Company letter from [Supplier A] stating the following:

that the distributorship for sale and supply of [brand / models] in Singapore has been transferred to [Supplier B] effective from [date]. The letter shall include or be accompanied with a list of the registered WELS models and the corresponding water efficiency registration no. given earlier to [Supplier A];

[Supplier A] authorises [Supplier B] to use the test reports, Certificate of Conformities of the registered models and WELS labels effective from [date].

AND

2) A Company Letter of Acceptance from [Supplier B] to take over as distributor for the sale and supply of [brand and list of WELS registered models with corresponding WELS labels] in Singapore from [Supplier A] effective from [date].

16. Withdrawal or Revocation of Registered Product

a. PUB may revoke or withdraw any registration for any contraventions under Regulation 40AF of the Public Utilities (Water Supply) Regulations. The workflows of withdrawal and revocation of WELS products are in Annexes 4a and 4b.

17. Post-Market Surveillance

a. PUB conducts regular spot checks at suppliers’ showrooms and retailers. PUB will not hesitate to take action against any person for contraventions to the Public Utilities (Water Supply) Regulations.

18. Records Maintenance and Traceability

a. The records of every registered model and its supporting documents shall be kept and maintained by the Accredited CB for at least 10 years.

b. The registered supplier shall declare to PUB upon PUB’s request, in writing, for every model registered whether the model is still being supplied in Singapore.

c. The water fittings, appliances, apparatuses and products covered/not covered under MWELS and VWELS are listed in the Table 2 below:
19. Water Efficiency Rating and Requirements

The water efficiency rating and requirements for water fittings and appliance are shown in Tables 2, 3 and 4 below.

### Table 2

<table>
<thead>
<tr>
<th>Water Efficiency Rating</th>
<th>2-tick ✓✓</th>
<th>3-tick ✓✓✓</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of fitting</td>
<td>Flow Rate (litres/min)</td>
<td></td>
</tr>
<tr>
<td><strong>Shower Taps &amp; Mixers</strong></td>
<td>&gt; 5 to 7</td>
<td>5 or less</td>
</tr>
<tr>
<td><strong>Basin Taps &amp; Mixers</strong></td>
<td>&gt; 2 to 4</td>
<td>2 or less</td>
</tr>
<tr>
<td><strong>Sink/Bib Taps &amp; Mixers</strong></td>
<td>&gt; 4 to 6</td>
<td>4 or less</td>
</tr>
<tr>
<td><strong>Flush volume (litres per flush)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Flushing Cisterns</strong></td>
<td>&gt; 3.5 to 4.0 (full flush)</td>
<td>3.5 or less (full flush)</td>
</tr>
<tr>
<td></td>
<td>&gt; 2.5 to 3 (reduced flush)</td>
<td>2.5 or less (reduced flush)</td>
</tr>
<tr>
<td><strong>Urinal Flush Valve &amp; Waterless Urinals</strong></td>
<td>&gt; 0.5 to 1</td>
<td>0.5 or less</td>
</tr>
<tr>
<td><strong>WC flush valves (Litres Per Flush)</strong></td>
<td>&gt;3.5 to 4.0</td>
<td>3.5 or less</td>
</tr>
</tbody>
</table>

With effect from 1 Apr 2019, all taps and mixers (basin, sink, bib and shower), dual-flush low capacity flushing cisterns and urinal flush valves/waterless urinals allowed for sale and supply in Singapore shall be of minimum 2-tick or more rating under the MWELS. 1-tick water fittings are no longer allowed for sale and supply in Singapore from 1 Apr 2019 onwards. Refer to Annex 1b for the revised clauses on water efficiency ratings and requirements.

### Table 3

<table>
<thead>
<tr>
<th>Water Efficiency Rating</th>
<th>1-tick ✓</th>
<th>2-tick ✓✓</th>
<th>3-tick ✓✓✓</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of fitting</td>
<td>Flow Rate (litres/min)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Showerheads</strong></td>
<td>&gt; 7 to 9</td>
<td>&gt; 5 to 7</td>
<td>5 or less</td>
</tr>
</tbody>
</table>

With effect from 1 Apr 2020, it is recommended that all new and existing 3-tick showerheads under VWELS to be tested for Spray Force test and Spray Coverage test under AS 3662:2013. See Remarks in Table 5 and Annex 1c.

### Table 4

<table>
<thead>
<tr>
<th>Water Efficiency Rating</th>
<th>1-tick ✓</th>
<th>2-tick ✓✓</th>
<th>3-tick ✓✓✓</th>
<th>4-tick ✓✓✓</th>
</tr>
</thead>
<tbody>
<tr>
<td>Products</td>
<td>Water consumption (litres per kg)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Clothes Washing Machines for household use (Per Washload)</strong></td>
<td>NA</td>
<td>&gt; 9 to 12</td>
<td>&gt; 6 to 9</td>
<td>6 or less</td>
</tr>
</tbody>
</table>
The water fittings and appliances covered under WELS are shown in Table 5 below.

### Table 5

<table>
<thead>
<tr>
<th>Types of products</th>
<th>Covered under MWELS</th>
<th>Covered under VWELS</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basin Taps and Mixers</td>
<td>Yes</td>
<td>-</td>
<td>a) Same flow rate test report is acceptable if the new model and tested model have the same body design but different in; finishing / colours; or handle design, and that they do not affect the performance of the tested model. Test report must indicate the differences and new and tested model nos. must be different.</td>
</tr>
<tr>
<td>Sink Taps and Mixers</td>
<td>Yes</td>
<td>-</td>
<td>b) If 2 flow rate results are recorded for a particular fitting e.g. 2-way bib tap or exposed shower mixer with more than 1 outlet, the highest average flow rate results will be used for determining the water efficiency.</td>
</tr>
<tr>
<td>Bib Taps and Mixers</td>
<td>Yes</td>
<td>-</td>
<td>c) For exposed bath/shower mixers, flow rates shall be taken at the shower outlets (and not at the showerheads). Water efficiency is not applicable to the flow rate from bath outlet.</td>
</tr>
<tr>
<td>Thermostatic mixer for basin, sink, bib or shower</td>
<td>Yes</td>
<td>-</td>
<td>From 1 Apr 2020, thermostatic mixers shall be tested to Section 13.2 of BS EN 1111:2017. BS EN 1287:1998 and BS EN 1111:1999 will no longer be acceptable from 1 Apr 2020.</td>
</tr>
<tr>
<td>Dual Flush Low Capacity Flushing Cisterns (Dual Flush LCFCs)</td>
<td>Yes</td>
<td>-</td>
<td>a) Same test report is acceptable if the new model and tested model have different; b) Frame (with or without frame); or c) Height of frame; or d) Face plate design. e) Differences must be indicated in test reports. f) Models nos. of new and tested products must be different.</td>
</tr>
<tr>
<td>Urinal Flush Valves</td>
<td>Yes</td>
<td>-</td>
<td>a) Same test report is acceptable if the new model and tested model have different face plate design. b) Differences between new and tested model must be indicated in test reports. c) Models nos. of new and tested products must be different. d) For flush volume of less than 0.5 litres per flush, urinal flush valves must be coupled together with urinal bowl for Dye test.</td>
</tr>
<tr>
<td>Types of products</td>
<td>Covered under MWELS</td>
<td>Covered under VWELS</td>
<td>Remarks</td>
</tr>
<tr>
<td>-------------------------------------------------------</td>
<td>---------------------</td>
<td>---------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Waterless Urinals</td>
<td>Yes</td>
<td>-</td>
<td>Refer to Clause 5c for stipulated standards and requirements.</td>
</tr>
<tr>
<td>Clothes washing machines intended for household use</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Showerheads</td>
<td>-</td>
<td>Yes</td>
<td>-</td>
</tr>
<tr>
<td>Bathtub taps and mixers</td>
<td>No</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Bath/shower taps and mixers (exposed type) &amp;</td>
<td>Yes</td>
<td>-</td>
<td>a) MWELS is only applicable to the shower flow rates (i.e. at shower outlets). Not applicable to the bath flow rate for filling of bathtubs.</td>
</tr>
<tr>
<td>Shower taps and mixers (exposed type)</td>
<td></td>
<td></td>
<td>b) The flow rates shall be taken at the shower outlets (and not at the showerheads). Water efficiency is not applicable to the flow rate from bath outlet.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>c) Same flow rate test report is acceptable if the new model and tested model have the same body design but different in:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>i. finishing / colours; or</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ii. handle design.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>iii. face plate design.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>and that they do not affect the performance of the tested model. Test report much indicate the differences and new and tested model nos. must be</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>different.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>d) Differences must be indicated in test reports.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>e) Models nos. of new and tested products must be different.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>f) If there are 2 flow rate results recorded for a particular fitting e.g. 2-way bib tap, exposed shower mixer with more than 1 outlet, the highest average flow rate results will be used for water efficiency.</td>
</tr>
<tr>
<td>Bidet taps and mixers</td>
<td>No</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Flush valves for Water Closets (WCs)</td>
<td>Yes (Effective from 1 Jan 2022)</td>
<td>-</td>
<td>a) The maximum flush volume shall be not more than 4.0 litres per flush i.e. no fluctuations of more than 4.0 litres per flush is allowed at any of test pressures.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>b) WC flush valves with flush volumes of lower than 3.5 litres (i.e. &lt;3.5 litres) per full flush shall be subjected to WC drainline transportation test as stipulated in Clause 7.4 of SS 574:Part 1:2012.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>c) For WC flush valves with manually-operated dual-flush mode, the volume of discharge for the reduced flush shall not be more than 3.0 litres.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Refer to PUB S&amp;R for full test requirements.</td>
</tr>
<tr>
<td>Concealed shower taps and mixers</td>
<td>No</td>
<td>-</td>
<td>With effect from 1 Apr 2019, it is recommended that such taps and mixers to be installed with at least 2-tick (i.e. not more than 7 litres/min) showerheads under Voluntary WELS.</td>
</tr>
</tbody>
</table>

*Added on 1 Oct 20.*
### Types of products Covered under MWELS Covered under VWELS Remarks

<table>
<thead>
<tr>
<th>Types of products</th>
<th>Covered under MWELS</th>
<th>Covered under VWELS</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Showerheads</td>
<td>No</td>
<td>Yes</td>
<td>Recommended for 3-tick showerheads to be tested Spray Force test and Spray Coverage test under AS 3662:2013.</td>
</tr>
</tbody>
</table>

Table 6 below sets out the actual upper and lower limits for the respective taps and mixers.

#### Table 6

<table>
<thead>
<tr>
<th>Type of fitting</th>
<th>Tick</th>
<th>Water Efficiency Rating (litres/min)</th>
<th>Actual upper limit (litres/min)</th>
<th>Actual lower limit (litres/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basin Taps &amp; Mixers</td>
<td>2</td>
<td>&gt; 2 to 4</td>
<td>4.5</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>2 or less</td>
<td>2.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Bib Taps</td>
<td>2</td>
<td>&gt; 4 to 6</td>
<td>6.5</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>4 or less</td>
<td>4.5</td>
<td>3.5</td>
</tr>
<tr>
<td>Sink Taps &amp; Mixers</td>
<td>2</td>
<td>&gt; 4 to 6</td>
<td>6.5</td>
<td>3.5</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>4 or less</td>
<td>4.5</td>
<td>2.5</td>
</tr>
<tr>
<td>Shower Taps &amp; Mixers</td>
<td>2</td>
<td>&gt; 5 to 7</td>
<td>7.5</td>
<td>4.5</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>5 or less</td>
<td>5.5</td>
<td>4.5</td>
</tr>
</tbody>
</table>

20. **Listing of Water Efficient Labelled Models**

   a. The list of all water fitting, appliance, apparatus and product models that have been registered under WELS can be viewed at [www.pub.gov.sg/wels](http://www.pub.gov.sg/wels).

21. **Enquiries**

   a. If in doubt, vendors may seek clearance for advertisements and publicity materials featuring the water efficiency label from PUB before publication and promotion. A sample of the advertisement/publicity material may be sent to the following address for clearance before publication and promotion:

   Inspectorate Branch  
   Water Demand Management & Inspectorate Division  
   Water Supply (Network) Department  
   PUB  
   40 Scotts Road, #10-01  
   Singapore 228231  
   Tel: 1800-2255 782 (Call PUB-One)  
   Tel: 65172925 / 65172934 / 65172932 / 68056315 / 68056315 / 68852521  
   Fax: 67313023  
   Email: pub_waterfittings@pub.gov.sg

   b. All other enquiries on WELS can also be sent to the above address.
## TEST STANDARD OR METHOD

1. A test report for a specified water fitting must contain the results of tests carried out for the specified water fitting in accordance with the applicable test standard or method, as follows:

<table>
<thead>
<tr>
<th>First column</th>
<th>Second column</th>
<th>Third column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specified water fitting</td>
<td>Type</td>
<td>Applicable test standard or method</td>
</tr>
<tr>
<td>(1) Taps and mixers</td>
<td>(a) Pillar basin taps</td>
<td>(i) Annex A of SS 448: Part 3 (1998); or</td>
</tr>
<tr>
<td></td>
<td>(b) Self-closing delayed-action basin taps</td>
<td>(ii) section 10 of BS EN 200 (2008)</td>
</tr>
<tr>
<td></td>
<td>(c) Sensor (including self-closing delayed-action) basin taps</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(d) Combination basin taps</td>
<td>Section 10 of BS EN 817 (2008)</td>
</tr>
<tr>
<td></td>
<td>(e) Bib taps</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(f) Sink taps (cold water only)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(g) Sensor sink taps</td>
<td>Section 10 of BS EN 1287 (1999) or Section 13.2 of BS EN 1111 (2017)</td>
</tr>
<tr>
<td></td>
<td>(h) Combination sink taps</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(i) Shower taps (cold water only)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(j) Self-closing delayed-action shower taps</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(k) Sensor (including self-closing delayed-action) shower taps</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(l) Combination shower taps</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(m) Mechanical basin, sink or shower mixers with a single or separate control device for adjusting flow rate and temperature</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(n) Thermostatic mixer for basin, sink, bib or shower</td>
<td></td>
</tr>
<tr>
<td>(2) Flushing cistern</td>
<td>(a) Dual-flush low capacity flushing cisterns with volume discharge of 3.5 litres or more for full flush</td>
<td>SS 574: Part 1 (2012), Volume of Discharge per flush</td>
</tr>
<tr>
<td></td>
<td>(b) Dual-flush low capacity cisterns with volume of discharge of less than 3.5 litres for full flush</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(i) SS 574: Part 1 (2012), Volume of Discharge per flush; and</td>
</tr>
</tbody>
</table>

*S 192/2019 wef 01/04/2019*

The flow rate is determined in accordance with paragraph 2.
<table>
<thead>
<tr>
<th>Specified water fitting</th>
<th>Type</th>
<th>Applicable test standard or method</th>
</tr>
</thead>
<tbody>
<tr>
<td>(ii) SS 574: Part 1 (2012), Annex J — WC Drainline</td>
<td></td>
<td>Transportation test</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The flow rate is determined in accordance with paragraph 2.</td>
</tr>
<tr>
<td>(3) Urinal flush valve</td>
<td>(a) Urinal flush valve with flush volume of 0.5 litres or more</td>
<td>(i) The test method for determining the flush volume set out in paragraph 3; and</td>
</tr>
<tr>
<td></td>
<td>(b) Urinal flush valve with flush volume of less than 0.5 litres</td>
<td>(ii) Dye Test specified in —</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(A) Clause 8.5 of the ASME A112.19.2 - 2008/CSA B45.1-08; or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(B) ASME A112.19.2 - 2013/CSA B45.1-13</td>
</tr>
<tr>
<td>(4) Clothes washing machine</td>
<td>-</td>
<td>(a) Clause 8.6 of IEC 60456 Edition 5.0 (2010-02); or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(b) Clause 11 of BS EN 60456 (2005) relating to measurement of water consumption</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The water consumption is determined in accordance with paragraph 4.</td>
</tr>
<tr>
<td>(5) Dishwashers</td>
<td>-</td>
<td>Clause 8.2 of BS EN 50242: 2016 / BS EN 60436: 2016;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clause 8.2 of IEC 60436: 2015 on water consumption test.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The water consumption is determined in accordance with paragraph 6.</td>
</tr>
</tbody>
</table>

The flow rate for a tap and mixer is the mean of the average flow rates measured in litres per minute and at the dynamic flow pressures of 1.5 bars, 2.5 bars, 3.5 bars, 4.5 bars and 5 bars.
The urinal flush valve is tested at dynamic pressure of 3 bars. The discharge volume per flush is measured with the following test method:

(a) the flush pipe is to be 300 mm long with an internal diameter of at least 13 mm and is to be secured to the outlet of the valve;
(b) the pressure gauge and control valve are to be fitted at the inlet of the flush valve;
(c) the flush valve is to be connected to a water supply system and the dynamic pressure of the water supply adjusted to 0.7 bars;
(d) the flow regulator is to be set at maximum;
(e) the operating member must continue to be held actuated until the flow of water ceases;
(f) the flush volume is the volume of water that is discharged from the flush pipe from the actuation of the operating member to cessation of flow of water.

The water consumption for a clothes washing machine is to be measured using the wash programme or other associated settings recommended in the manufacturer’s product literature for a normally soiled load at rated load capacity, and the following are not required as a test condition:

(a) the use of a reference clothes washing machine for normalisation of base load items;
(b) the parallel operation of a reference clothes washing machine with the tested clothes washing machine;
(c) the use of a specific inlet water temperature, water hardness, water pressure, ambient temperature or humidity;
(d) the use of stain test strips;
(e) the use of detergent.

The water consumption is to be measured using the wash programme or other associated settings recommended in the manufacturer’s product literature for normally soiled tableware at rated dishwasher capacity, and the following are not required as a test condition:

(a) the use of a reference dishwasher for normalisation of base load items;
(b) the parallel operation of a reference dishwasher with the tested dishwasher;
(c) the use of a specific inlet water temperature, water hardness, water pressure, ambient temperature or humidity;
(d) the use of soil agents;
(e) the use of detergent, rinse agent or salt;
(f) the use of an electric supply at a specific voltage;
(g) the use of regeneration operations; and
(h) the preparation and application of soil agents.

============
Annex 1b

Extracted from Part 3 of Second Schedule of the Public Utilities (Water Supply) Regulations

PART 3

WATER EFFICIENCY REQUIREMENTS

1. Every tap and mixer, regardless of the type, must meet all of the following requirements:

   (a) the difference between the highest and lowest flow rates (measured at the dynamic flow pressures specified in paragraph 2 of Part 1 of this Schedule) of the tap and mixer must not exceed 2 litres per minute;

   (b) the highest flow rate of the tap and mixer must not exceed the upper limit of the range of flow rates within which the flow rate of the tap and mixer falls (under paragraph 2 of Part 2 of this Schedule) by more than 0.5 litres per minute;

   (c) the lowest flow rate of the tap and mixer —

      (i) for a sink tap and mixer with a flow rate falling within the range of flow rates specified for 3 ticks — must not be lower than 2.5 litres per minute;

      (ii) for a sink tap and mixer with a flow rate falling within the range of flow rates specified for 2 ticks — must not be lower than 3.5 litres per minute;

      (iii) for a basin tap and mixer, with a flow rate falling within the range of flow rates specified for 2 ticks and 3 ticks — must not be lower than 1.5 litres per minute;

      (iv) for a bib tap and mixer with a flow rate falling within the range of flow rates specified for 2 ticks and 3 ticks — must not be lower than 3.5 litres per minute; and

      (v) for a shower tap and mixer with a flow rate falling within the range of flow rates specified for 2 ticks and 3 ticks — must not be lower than 4.5 litres per minute;  

[S 192/2019 wef 01/04/2019]

   (d) the tap and mixer must have a flow rate as follows:

      (i) for basin tap and mixer, not more than 4 litres per minute;  

[S 192/2019 wef 01/04/2019]

      (ii) for a sink tap and mixer or bib tap and mixer, not more than 6 litres per minute;  

[S 192/2019 wef 01/04/2019]

      (iii) for a shower tap and mixer, not more than 7 litres per minute.  

[S 192/2019 wef 01/04/2019]

2. Every flushing cistern or flush valve serving a urinal must be of such a design as to use not more than the amount of water specified in paragraph 18(1) or (3) of the First Schedule, as the case may be.  

[S 192/2019 wef 01/04/2019]

Updated as at 1 Oct 20.

3. Every clothes washing machine intended for household use must be of such a design as to use not more than 12 litres of water per kilogram of wash load for the washing programme recommended by the manufacturer for a normally soiled load at the rated capacity of the washing machine.

[S 192/2019 wef 01/04/2019]
4. Every dishwasher intended for household use must be of such a design as to use not more than 1.5 litres of water per place setting for normally soiled tableware at rated dishwasher capacity.

[S 335/2018 wef 01/10/2018]

5. In this Part —

“flow rate” means the volume of water that flows out of a tap and mixer per minute, as specified in the test report;

“place setting” means —

(a) where the test standard used is BS EN 50242: 2016 / BS EN 60436: 2016, the set of tableware items specified in Annex A of BS EN 50242: 2016 / BS EN 60436: 2016; and

(b) where the test standard used is IEC 60436: 2015, the set of tableware items specified in Annex A of IEC 60436: 2015.

[S 535/2018 wef 01/10/2018]
Annex 1c

1. A test report for a specified water fitting must contain the results of tests carried out for the specified water fitting in accordance with the applicable test standard or method, as follows:

<table>
<thead>
<tr>
<th>Specified water fitting</th>
<th>Test standard</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Showerheads</td>
<td>AS 3662 : 2013 or AS 3662 : 2005</td>
<td>i. Clause 5.1 – Flow rate test. The flow rate test shall be measured in accordance with Appendix B of the standard but at the dynamic flow pressures as stated in paragraph 1. The flow rate shall be determined in accordance with paragraph 2. The higher and lower limits shall meet the requirements specified in paragraph 3.</td>
</tr>
<tr>
<td></td>
<td>AS 3662 : 2013</td>
<td>ii. Clause 5.4.1 – App H Spray Force test</td>
</tr>
<tr>
<td></td>
<td></td>
<td>iii. Clause 5.4.2 – App I Spray Coverage test.</td>
</tr>
</tbody>
</table>

*Australian Standard AS 3662:2013 – Performance of showers for bathing*

1. For showerheads, the flow rates shall be measured in accordance with Appendix B of AS/NZS 3662:2013 but at the following dynamic flow pressures: 0.5 bars, 1.0 bar, 1.5 bars, 2.0 bars, 2.5 bars, 3.0 bars, 3.5 bars, 4.5 bars, 5.0 bars and 5.5 bars.

2. The flow rate for a tap and mixer for WELS is the mean of the average flow rates measured in litres per minute and at the dynamic flow pressures of 1.5 bars, 2.5 bars, 3.5 bars, 4.5 bars and 5 bars.

3. Every showerhead, regardless of the type, must meet the following requirements:

   (a) the difference between the highest and lowest flow rates (measured at the dynamic flow pressures of the showerhead must not exceed 2 litres per minute;

   (b) the highest flow rate of the showerhead must not exceed the upper limit of the range of flow rates within which the flow rate of the showerhead falls by more than 0.5 litres per minute;

   (c) the lowest flow rate of the showerhead must not be lower than the lower limit of the range of flow rates within which the flow rate of the showerhead falls by more than 0.5 litres per minute;

   (d) have a flow rate of not more than 9 litres per minute.
CERTIFICATE OF CONFORMITY
Water Efficiency Labelling Scheme

CERTIFICATE OF CONFORMITY NUMBER:

This Certificate is issued to:

Name of Vendor
Address

For

Water Efficiency Labelling Product(s)

(See Appendix/ces for products and/or family/ies details)

which has/have complied with the requirements of the Scheme and based on the following:

Title and Year of Standard(s) :

[Specific clause number of the test standard
Example
Clause 10 of BS EN 200 : YYYY or BS EN 817 : YYYY or SS 574 : YYYY or SS 448 : YYYY
SS 375 : YYYY, etc.]

Product conformity certificates are awarded on the basis of an assessment of
Type Test report (s) No. XXXX dated XXXX__________________________
__________________________

<Name of CAB> is accredited by the Singapore Accreditation Council for certification in respect of
Product Certification Scheme (ISO/IEC 17065: YYYY and SAC CT _____: YYYY)

Signature
Designation
<name of CB>

Certificate No  Date of Original Issue  Date of Last Revision

SAC and CB logos

This Certificate is part of a full report and should be read in conjunction with it. This Certificate remains the property of <name of CB> and shall be returned upon request. The use of this Certificate is subjected to the terms and conditions of the Water Efficiency Labelling Scheme. The manufacturer is solely responsible for compliance of any product that has the same designation as the product type-tested. Persons relying on this Certificate should verify its validity by checking <name of CB>'s website at <CB website>.
# APPENDIX

**CERTIFICATE OF CONFORMITY NUMBER:**

Vendor:
- Name of Vendor
- Address

**Issue Number:**

**Date of Issue:** DD-MM-YYYY

**Product Standard :** e.g. Clause XXX of BS EN 200:YYYY

<table>
<thead>
<tr>
<th>(A) Product type</th>
<th>(B) Brand</th>
<th>(C) Model</th>
<th>(D) Flowrate (L/min) / Water Consumption</th>
<th>WELS Rating</th>
<th>Body material</th>
<th>Water shut-off device</th>
<th>Test report ref. no. for AS/NZS 4020 App H: YYYY</th>
<th>Test report reference No. for SS 375:YYYY</th>
<th>Test report ref. no. for SS 270:YYYY</th>
<th>Test report ref. no. for DZR brass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

Signed: __________________________________________

Designation

<Name of CAB>

Amendments or additions to this appendix other than those authorized by <name of CAB> render the Appendix invalid.
Annex 3a

WELS LABELS

All labels shall have the following comprise the following:

a) The title “Water Efficiency”

b) Ticks that indicate the water efficiency rating of the labelled water fitting, appliance, apparatus or product

c) Water Consumption

d) Type of product (To indicate type of water fitting, appliance, apparatus or product)

e) Brand name

f) Model number

g) Wash Programme (applicable to Clothes Washing Machines category)

h) Serial number (applicable to Water Efficiency Label for VWELS only). The format for registration number shall be: 02/YYYY/000000/ZZZ
   i. 02 – Fixed Prefix representing “Showerheads”
   ii. YYYY – Year of registration
   iii. 000000 – running number issue by the system
   iv. ZZZ – represent of the certification body that certify the product (will be issued by PUB)

i) Registration number (applicable to Water Efficiency Label for MWELS only). The format of the registration number shall be: XXX-YYYY/000000/ZZZ
   i. XXX – present of the category

<table>
<thead>
<tr>
<th>Category</th>
<th>Prefix</th>
</tr>
</thead>
<tbody>
<tr>
<td>I Shower Tap &amp; Mixer</td>
<td>SHT</td>
</tr>
<tr>
<td>II Basin Tap &amp; mixer</td>
<td>BST</td>
</tr>
<tr>
<td>III Sink/Bib Tap &amp; Mixer</td>
<td>SKT/BT</td>
</tr>
<tr>
<td>IV Low Capacity Flushing Cisterns</td>
<td>WC</td>
</tr>
<tr>
<td>V Clothes Washing Machine</td>
<td>WM</td>
</tr>
<tr>
<td>VI Dishwasher</td>
<td>DW</td>
</tr>
</tbody>
</table>

[Amended on 4 May 18]

ii. YYYY – Year of registration

iii. 000000 – running number issue by the system

iv. ZZZ – represent of the certification body that certify the product (will be issued by PUB)
DESIGN OF WELS LABELS

Water Efficiency Label for Taps & Mixers, Low Capacity Flushing Cisterns and Urinal Flush Valves, WC Flush Valves & Waterless Urinals (Mandatory WELS)

Actual water consumption may vary from test results. Compare all models at www.pub.gov.sg.

Water Consumption:
Type of Product:
Brand:
Model:
Registration No.:

Pantone 2746
C = 100, M = 90, Y = 0, K = 0

Approx size: 8.3 cm x 10.5 cm

C = 51, M = 0, Y = 9, K = 0

8.3 cm

10.5 cm
DESIGN OF WELS LABELS

Water Efficiency Label for Clothes Washing Machines and Dishwashers (Mandatory WELS)
DESIGN OF WELS LABELS

Water Efficiency

Water Consumption:
Type of Product:
Brand:
Model:
Serial No.:

Water Efficiency Label for Showerhead (Voluntary WELS)

Annex 3d

Approx size: 8.3 cm x 10.5 cm
Restrictions on advertisements for supply of specified water fittings

40AB.—(1) A person must not advertise a specified water fitting for supply unless the specified water fitting is registered under regulation 40AE(3).

(2) Without affecting paragraph (1), the person advertising the specified water fitting —

(a) where the advertisement has any visual element, must ensure the following:

(i) for an advertisement other than a print advertisement —

(A) a Water Efficiency Label is, as far as practicable, displayed in the advertisement next to the image or description of the specified water fitting; or

(B) where it is not practicable to comply with sub-paragraph (A), all the information contained in the Water Efficiency Label is stated in the advertisement;

(ii) for an advertisement that is a print advertisement —

(A) the advertisement complies with sub-paragraph (i); or

(B) the information mentioned in paragraph (2A) is stated in the advertisement; and

[S 192/2019 wef 01/04/2019]

(b) must not claim or imply that the specified water fitting is tested, certified, or otherwise approved by the Government or the Board.

(2A) The information required in paragraph (2)(a)(ii)(B) is as follows:

(a) the tick rating of the specified water fitting;

(b) the brand of the specified water fitting;

(c) the model number of the specified water fitting;

(d) the number issued by the Board for the specified water fitting’s registration under regulation 40AE.

[S 192/2019 wef 01/04/2019]

(3) Any person that contravenes paragraph (1) or (2) shall be guilty of an offence.

[S 133/2017 wef 01/04/2017]
Restrictions relating to Water Efficiency Label

40AD. (1) A person must not affix, or cause to be affixed, a Water Efficiency Label on a specified water fitting unless —
   (a) the specified water fitting has been registered by the Board;
   (b) the person is a registered supplier for the water fitting; and
   (c) the Water Efficiency Label was issued to the person by the Board for the registered water fitting.

(2) A registered supplier must, before supplying the registered water fitting in Singapore, affix the Water Efficiency Label in accordance with the requirements in paragraph (3).

(3) A Water Efficiency Label must be affixed on a registered water fitting in accordance with the following requirements:
   (a) where the Water Efficiency Label is not printed onto the packaging of the registered water fitting, the Water Efficiency Label must be affixed securely on the registered water fitting or its packaging;
   (b) the place where the Water Efficiency Label is affixed must be conspicuous and unobstructed.

(4) A person must not —
   (a) alter in any way any Water Efficiency Label that is to be or is affixed on a registered water fitting;
   (b) forge or falsify any Water Efficiency Label; or
   (c) without reasonable excuse, remove, obscure or deface any Water Efficiency Label affixed on any registered water fitting.

(5) Any person that contravenes paragraph (1), (2) or (4) shall be guilty of an offence.
**Workflow of Revocation of Product**

PUB receives suspected case of:
- supplier procured product registration by providing false or misleading info, etc.
- supplier has contravened Reg 40AA, 40AC or 40AD of PU(Water Supply) Regns
- supplier has ceased to carry on trade in Singapore
- product does not conform to test or examination furnished by supplier
- product does not meet water efficiency requirements.

PUB follows up with supplier and take enforcement action against supplier if there is any contravention to Public Utilities (Water Supply) Regulations.

**Is product to be revoked?**

- **Y**
  - PUB informs supplier:
    - that product will be revoked within 14 days from date of notification.
    - reason for revocation.
    - to submit undertaking within 14 days from date of notification that he will inform retailers/distributors on the revocation

  - PUB removes product from website

  - 1) PUB informs CB of the withdrawal of product from website.
  - 2) CB to take note of PUB’s notification of the revocation and keep internal record.

- **N**
  - Product remains in PUB’s website.
  - Case closed

PUB removes product from website

Case closed

PUB WELS Guidebook
Updated as at 1 Oct 2020

Annex 4a
Workflow of Withdrawal of Product

PUB receives application from supplier
- to withdraw product; or
- supplier ceases to supply in Singapore

PUB informs supplier to undertake that he will inform retailers/distributors on the withdrawal of product or ceases to supply.

Does supplier submit undertaking to PUB that they have informed retailers/distributors

Y

1) PUB informs CB of the withdrawal of product from website.
2) CB to take note of PUB’s notification of the withdrawal and keep internal record.

N

PUB removes product from website.

1) PUB informs CB of the withdrawal of product from website.
2) CB to take note of PUB’s notification of the withdrawal and keep internal record.

Enforcement action against supplier

Case closed
Registration of Certified Product Information and Water Efficiency onto PUB’s WELS System

Annex 5

Accredited CB

- CB submits online thru WELS website at www.pub.gov.sg/wels within 7 working days from date of CoC.

- CB issues label to supplier within 7 working days from date label is provided by PUB.

PUB

Backend:
1) PUB verifies with CBs on products submitted.
2) PUB change application status of product.
3) System sends label to CB.

WELS Website:
Product published in website

3b – Auto-generated email sent to Accredited CB to download label for their records.

3c – CB is required to issue label to supplier. Please also read Clause 9 of the WELS Guidebook.
Example of display of 4 essential water efficiency label information for **printed advertisements only**.

<table>
<thead>
<tr>
<th>A) Display clear, legible and colour label</th>
<th>OR</th>
<th>B) Display only 4 essential water efficiency label information for printed advertisement only</th>
</tr>
</thead>
<tbody>
<tr>
<td>To display the water efficiency label next to the image or description of the product.</td>
<td></td>
<td>Only 4 essential information needs to be displayed <strong>without the need for the Water Efficiency Label</strong></td>
</tr>
</tbody>
</table>

![Water Efficiency Label Example](image-url)
Tick Rating: ✓ ✓, Water consumption: **2.5 litre/min** Brand: **ABCD**, Model No: **8888**, WELS Registration No: BST-xxx/xxxxx/xxx

<table>
<thead>
<tr>
<th>A) Display clear, legible and colour label</th>
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<td></td>
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</tr>
</tbody>
</table>

*Added on 14 May 19*
Tick Rating: ✔ ✔ ✔, Brand: Samsung, Model No: WW12K8412OW, WELS Registration No: WM-016/019289