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本署檔號 *Our ref.* : (19) in WSD 3318/50 Pt.9
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13 September 2024

Distribution: To all Licensed Plumbers and Authorised Persons

Dear Sirs,

WSD Circular Letter No. 7/2024
Proposed Amendments to
"Technical Requirements for Plumbing Works in Buildings"

This Circular Letter introduces the new requirements as recommended by the Third Party Audit of the Drinking Water Quality Management System of the WSD.

New Requirements

2. To operate in co-ordination with the recommendations, WSD's publication "Technical Requirements for Plumbing in Buildings" has been reviewed to incorporate the new requirements, which are summarized in **Appendix I**.

Effective Date

3. The above new requirements shall take immediate effect.

Enquiry

4. Should you have any enquiry, please contact our Engineer/Technical Support(5) at telephone no. 2829 4574.

Yours faithfully,

(Original Signed)
(CHAN Chi Yuen, Stanley)
for Water Authority

Encl.
(with Chinese translation)

c.c.
Housing Department (Attn: SM/QM)
Buildings Department
Architectural Services Department
Fire Services Department
The Hong Kong Housing Society
The Hong Kong Institute of Architects
The Hong Kong Institution of Engineers
The Hong Kong Institute of Surveyors
The Chartered Institute of Plumbing and Heating Engineering – Hong Kong Branch
Hong Kong Plumbing and Sanitary Ware Trade Association Ltd.
Hong Kong Licensed Plumbing Professionals Association Ltd.
Hong Kong Water Works Professionals Association Ltd.
The Hong Kong Institution of Plumbing and Drainage Ltd.
Plumbing Technology Student Association
The Association of Registered Fire Service Installation Contractors of Hong Kong Limited
Real Estate Developers Association of Hong Kong
Hong Kong Institute of Vocational Education
Hong Kong Institute of Construction, Construction Industry Council
The Hong Kong Construction Association, Ltd.
Hong Kong General Building Contractors Association Ltd.
The Hong Kong Federation of Electrical & Mechanical Contractors Ltd.
Contractor's Authorised Signatory Association Ltd.
Registered Minor Works Contractor Signatory Association Ltd.
Hong Kong Registered Contractors Association Company Ltd.
Hong Kong Licensed Plumbers Union Limited
Hong Kong Metropolitan University Li Ka Shing School of Professional and Continuing Education
The Association of Electrical and Mechanical Engineering (Hong Kong) Ltd.
Pipeman Engineering (International) Limited
Hong Kong Institute of Water and Sanitation Safety

WSD 3318/15/81

Appendix I

Amendment 1: Proposed Amendment to Clause 3.2.1.3

#3.2.1.3 If a section of copper or stainless steel pipe is used either before or after a water meter position, the section of copper or stainless steel pipe between the water meter position and the first pipe clamp shall be jointed by screwed or flanged joints or soldering/brazing joint.

Amendment 2: Proposed Amendment to Table 3.2.1.5.5

Table 3.2.1.5.5 Operational range and specification of different type water meters

METER TYPE	SIZE (mm)	THE CLEAR LENGTH OF STRAIGHT PIPE REQUIREMENT, WHERE D IS THE NOMINAL BORE OF THE WATER METER (mm)	
		UPSTREAM	DOWNSTREAM
SINGLE JET	50	5D	2D
	80		
	100		
TURBINE/WOLTMANN	50	5D	2D
	80		
	100		
	150		
	200		
	250		
	300		
ULTRASONIC	50	3D	2D
ELECTROMAGNETIC	50	3D	2D
	80		
	100		
	150		

Amendment 3: Proposed Amendment to Clause 3.2.2.6

#3.2.2.6 Standard configuration of meter box/ cabinet/ room for master meter, check meter, sub-meter and water meter for all new developments are shown in Fig. 31, Fig. 32, Fig. 36 and Fig. 41.

Amendment 4: Proposed Amendment to Clause 4.1.1.3

#4.1.1.3 Plumbing designers should, as far as practicable, avoid using pipes of same size and same material for potable and non-potable water (including cleansing, irrigation, fire service, flushing etc.) at the same location in order to avoid

misconnection of potable water to non-potable supplies. If pipes of same size and same material cannot be avoided at the same location, pipe identification marking (such as colour code, trade, destination, direction of flow or classification code) shall be provided for identification purpose.

Amendment 5: Proposed New Clause 4.1.1.4

#4.1.1.4 A boundary valve should be installed in inside service within the lot boundary as close to the Government water supply connection as possible.

Amendment 6: Proposed Amendment to Clause 4.3.5.7

#4.3.5.7 To facilitate future maintenance and testing for flushing pipe leakage, a tee branch valve for each individual premises shall be provided for all flushing pipes at locations where the valve could be reached from the premises and as close to the common pipe as practicable.

Amendment 7: Proposed New Clause 6.2.1.1.5

#6.2.1.1.5 Safe, free and uninterrupted access to the water cisterns should be provided and maintained at all time to ensure the safety of personnel undertaking cleaning or maintenance works.

Amendment 8: Proposed New Section B2.3

B2.3 Leaching Test for General Acceptance (GA) Application of Taps and Mixers - Alternative Route

B2.3.1 The taps and mixers shall have certification or test reports from either B.S.Kitemark, WRAS or accredited laboratories acceptable to WA.

B2.3.2 The leaching test of taps and mixers shall follow the testing requirements specified in Appendix H or I of Australian/New Zealand Standard AS/NZS 4020:2018 at a testing temperature (20±2)℃. The maximum allowable concentration of heavy metals of the extracts shall comply with the latest Hong Kong Drinking Water Standards (HKDWS).

B2.3.3 The taps and mixers shall follow, except for chemical composition test, the current requirements as detailed in Table B7 of TR.

B2.3.4 The material grades of metallic components of taps and mixers shall be specified in test reports. The material grade of respective component shall comply with

BS EN 1982:2008, BS EN 12420:2014, BS EN 12163:2016, BS EN 12164:2016, BS EN 12165:2016, BS EN 12167:2016, BS EN 10088-1:2014, BS EN 10088-2:2014, BS EN 10088-3: 2014, BS EN 10283:2010 or updated version of the above-mentioned standards where appropriate.

B2.3.5 As usual, it is required to declare in the GA application form that the sample provided for testing and certification by any accredited testing agent is the representative sample of the model submitted for GA application and all such GA products manufactured shall be replicas of that sample, without modifications or change of specified materials of construction.

B2.3.6 Please note that taps and mixers with GA approval, irrespective whether obtained through chemical composition test or leaching test, will be subject to equal chance of being selected under the GA surveillance programme. For taps and mixers with GA approval obtained through leaching test, they will have to show compliance with leaching test instead of chemical composition test in order to pass the compliance test under the GA surveillance programme.

B2.3.7 Under surveillance programme, the WSD will randomly take samples of different types of plumbing products with valid GA to test for compliance with the statutory requirements. The samples will be acquired from a number of sources including retailed shops, warehouses and other venues as advised by GA applicants for the WSD's selection.

Amendment 9: Proposed New Table for Section B5

Category	Pipes and Fittings
Type	Fittings (Long Screw Connector / Flange Adaptor for Water Meter)
Test item(s)	• Dimension - (Clause 3.2.1.2 of TR for Long Screw Connector; Based on Manufacturer Requirement for Flange Adaptor) • Chemical composition (body of long screw connector / flange adaptor) - (copper-zinc alloy, stainless steel or ductile iron with internal coating) • Coating thickness - (WIS 4-52-01 Appendix B)

Appendix I

Amendment 10: Proposed New Note No.5 for Section B7

5) Visual Inspection of Electroplating Material – The samples shall be tested against Appendix I of AS/NZS 4020 for the metal leached from electroplating material (Cr & Ni) to quantify the health risk.