

# ACCREDITATION SCHEME FOR CERTIFICATION BODIES



## Schedule

Setsco Services Pte Ltd  
531 Bukit Batok Street 23  
Singapore 659547

Certificate No : PD-2010-10  
(Part 5 of 6)

Issue No : 6

Date : 05 October 2023

Expiry of Certificate : 18 October 2026

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### Product Certification Scheme – Water Efficiency Labelling Scheme

ISO/IEC Type 1a Certification scheme consisting of only type test of a sample of the product representative of production

No.	Product Description	Test Standard Number		Test Standard Description
1(a)	<b>Taps and Mixers</b> Single Taps and Combination Taps <ul style="list-style-type: none"> <li>Pillar basin taps</li> <li>Self-closing delayed-action basin taps</li> <li>Sensor (including self-closing delayed- action) basin taps</li> <li>Combination basin taps</li> <li>Bib taps</li> <li>Sink taps (cold water only)</li> <li>Sensor sink taps</li> <li>Combination sink taps</li> <li>Shower taps (cold water only)</li> <li>Self-closing delayed-action shower taps</li> <li>Sensor (including self-closing delayed- action) shower taps</li> <li>Combination shower taps</li> </ul>	(i)	<b><u>Water Efficiency:</u></b> SS 448: Part 3: 1998, Annex A  or  BS EN 200: 2008, Clause 10	Paragraph 1(1) of Annex 1A of WELS Guidebook dated 1 Sep 2021
		(ii)	<b><u>Performance &amp; Materials:</u></b> BS EN 200: 2008  and  BS EN 14506: 2005  and  SS 671: 2021	Sanitary tapware. Single taps and combination taps for water supply systems of type 1 and type 2  Vacuum Tests  Specification for performance of self-closing delayed-action and sensor taps for water services
			SS 448: Part 2: 1998 SS 448: Part 3: 1998 SS 448: Part 4: 1998	Performance of draw-off taps with metal or plastic bodies for water services
			BS EN 248: 2002	Sanitary tapware. General specification for electrodeposited coatings of Ni-Cr

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No.	Product Description	Test Standard Number		Test Standard Description
			SS 375: 2015 or BS 6920: 2014 and SS 375: Part 1: 2015, Clause 8	Effect of non-metallic materials on potable water
			AS/NZS 4020: 2005/2018, Appendix H, Extraction of metals	Effect of metallic materials on potable water. Evaluated in accordance with WHO guidelines for Drinking Water Quality – Fourth Edition 2011
			SS 270: 2015	Elastomeric seals for pipe joints for potable water
			If applicable, all copper alloy water fittings except for exposed terminal fittings shall be of gunmetal, bronze or DZR brass materials only	
			BS EN 1982: 2008	Requirement on bronze and gunmetal material
			BS EN 12165:1998/ 2011/ 2016 BS EN 12163:1998/ 2011/ 2016 BS EN 12420:1999 or 2014	Requirement on DZR brass materials
1(b)	<b>Taps and Mixers:</b> Mechanical Mixers  Mechanical basin, sink or shower mixers with a single or separate control device for adjusting flow rate and temperature	(i)	<b><u>Water Efficiency:</u></b> BS EN 817: 2008, Clause 10	Paragraph 1(1) of Annex 1A of WELS Guidebook dated 1 Sep 2021
			BS EN 14506: 2005	Vacuum Test
		(ii)	<b><u>Performance &amp; Materials:</u></b> BS EN 817: 2008 and SS 448: Part 2: 1998	Mechanical mixing valve, Clause 10 – Backflow Prevention Test
			BS EN 248: 2002	Sanitary tapware. General specification for electrodeposited coatings of Ni-Cr
			SS 375: 2015 or	Effect of non-metallic materials on potable water

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No.	Product Description	Test Standard Number		Test Standard Description
			BS 6920: 2014 and SS 375: Part 1: 2015, Clause 8	
			AS/NZS 4020: 2005/2018, Appendix H, Extraction of metals	Effect of metallic materials on potable water. Evaluated in accordance with WHO guidelines for Drinking Water Quality – Fourth Edition 2011
			SS 270: 2015	Elastomeric seals for pipe joints for potable water
			If applicable, all copper alloy water fittings except for exposed terminal fittings shall be of gunmetal, bronze or DZR brass materials only	
			BS EN 1982: 2008	Requirement on bronze and gunmetal material
			BS EN 12165:1998/ 2011/ 2016 BS EN 12163:1998/ 2011/ 2016 BS EN 12420:1999 or 2014	Requirement on DZR brass materials
1(c)	<b>Taps and Mixers:</b> Thermostatic Mixers (for dynamic pressure up to 5 bars)  Thermostatic mixer for basin, sink, bib or shower	(i)	<b><u>Water Efficiency:</u></b> BS EN 1111: 1999/2017, Clause 10	Paragraph 1(1) of Annex 1A of WELS Guidebook dated 1 Sep 2021
		(ii)	<b><u>Performance &amp; Materials:</u></b> BS EN 1111: 1999/2017 and AS 4032.1: 2005	Thermostatic mixers (for dynamic pressure up to 5 bar)  Electronic valves – power failure (if applicable)
			BS EN 248: 2002	Sanitary tapware. General specification for electrodeposited coatings of Ni-Cr
			SS 375: 2015 or	Effect of non-metallic materials on potable water

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			BS 6920: 2014 and SS 375: Part 1: 2015, Clause 8	
			AS/NZS 4020: 2005/2018, Appendix H, Extraction of metals	Effect of metallic materials on potable water. Evaluated in accordance with WHO guidelines for Drinking Water Quality – Fourth Edition 2011
			SS 270: 2015	Elastomeric seals for pipe joints for potable water
			If applicable, all copper alloy water fittings except for exposed terminal fittings shall be of gunmetal, bronze or DZR brass materials only	
			BS EN 1982: 2008	Requirement on bronze and gunmetal material
			BS EN 12165:1998/ 2011/ 2016 BS EN 12163:1998/ 2011/ 2016 BS EN 12420:1999 or 2014	Requirement on DZR brass materials
1(d)	<b>Taps and Mixers:</b> Thermostatic mixers (for dynamic pressure up to 1 bar)	(i)	<b><u>Water Efficiency:</u></b> BS EN 1287: 1999, Clause 10	Paragraph 1(1) of Annex 1A of WELS Guidebook dated 1 Sep 2021
	Thermostatic mixer for basin, sink, bib or shower	(ii)	<b><u>Performance &amp; Materials:</u></b> BS EN 1287: 1999  and AS 4032.1: 2005	Thermostatic mixers (for dynamic pressure up to 5 bar)  Electronic valves – power failure (if applicable)
			BS EN 248: 2002	Sanitary tapware. General specification for electrodeposited coatings of Ni-Cr
			SS 375: 2015 or BS 6920: 2014 and	Effect of non-metallic materials on potable water

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No.	Product Description	Test Standard Number		Test Standard Description
			SS 375: Part 1: 2015, Clause 8	
			AS/NZS 4020: 2005/2018, Appendix H, Extraction of metals	Effect of metallic materials on potable water. Evaluated in accordance with WHO guidelines for Drinking Water Quality – Fourth Edition 2011
			SS 270: 2015	Elastomeric seals for pipe joints for potable water
			If applicable, all copper alloy water fittings except for exposed terminal fittings shall be of gunmetal, bronze or DZR brass materials only	
			BS EN 1982: 2008	Requirement on bronze and gunmetal material
			BS EN 12165:1998/ 2011/ 2016 BS EN 12163:1998/ 2011/ 2016 BS EN 12420:1999 or 2014	Requirement on DZR brass materials
2	<b>Dual Flush Water Closets Flushing Cisterns</b> (a) Dual-flush low capacity flushing cisterns with volume discharge of 3.5 litres or more for full flush  (b) Dual-flush low capacity flushing cisterns with volume discharge of less	(i)	<b><u>Water Efficiency:</u></b> SS 574: Part 1: 2012, Volume of discharge per flush  and  SS 574: Part 1: 2012, Clause 7.4, WC Drainline Transportation Test	Paragraph 1(2) of Annex 1A of WELS Guidebook dated 1 Sep 2021

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	than 3.5 litres for full flush	(ii) <b><u>Performance &amp; Materials:</u></b> SS 574: Part 1: 2012	Specification for dual flush low capacity water closet (WC) up to 4.5/3.0 litres capacity – WC flushing cisterns
	Water Closet Pans	and	
	For vitreous China WC Flushing Cisterns/Pans with integrated toilet seat with bidet	BS 1212: Part 4: 1991, Section 3 & 4 (except Clause 18, 19 and 20.1)	Float operated valves. Specification for compact type float operated valves for WC flushing cisterns (including floats)
		SS 574: Part 2: 2012	Specification for dual flush low capacity water closet (WC) up to 4.5/3.0 litres capacity – WC Pans
		BS 3402: 1969	Specification for quality of vitreous china sanitary appliances
		JIS 4422: 1986 or JIS 4422: 2011	Toilet seat with bidet
		SS 375: 2015 or BS 6920: 2014 and SS 375: Part 1: 2015, Clause 8	Effect of non-metallic materials on potable water
		AS/NZS 4020: 2005/2018, Appendix H, Extraction of metals	Effect of metallic materials on potable water. Evaluated in accordance with WHO guidelines for Drinking Water Quality – Fourth Edition 2011
		SS 270: 2015	Elastomeric seals for pipe joints for potable water
		If applicable, all copper alloy water fittings except for exposed terminal fittings shall be of gunmetal, bronze or DZR brass materials only	
		BS EN 1982: 2008	Requirement on bronze and gunmetal material

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			BS EN 12165:1998/ 2011/ 2016 BS EN 12163:1998/ 2011/ 2016 BS EN 12420:1999 or 2014	Requirement on DZR brass materials
3	<b>Urinary Flush Valves</b> (a) Urinal flush valve with flush volume of 0.5 litres or more  (b) Urinal flush valve with flush volume of less than 0.5 litres	(i)	<b><u>Water Efficiency:</u></b> The test method for determining the flush volume set out in paragraph 3  and  Dye Test specified in: (i) ASME A112.19.2-2008/CSA B45.1-08  Or  (ii) ASME A112.19.2-2013/CSA B45.1-13	Paragraph 1(3) of Annex 1A of WELS Guidebook dated 1 Sep 2021
		(ii)	<b><u>Performance &amp; Materials:</u></b> PUB's stipulated standards and requirements for urinal flush valves under WELS  and  Dye Test: (i) ASME A112.19.2-2008/CSA B45.1-08, Clause 8.5  or  (ii) ASME A112.19.2-2012/CSA B45.1-12, Clause 8.5	PUB requirements for Urinal Flush Valve under Water Efficiency Labelling Scheme   Ceramic plumbing fixture (for urinal flush valve with flush volume of less than 0.5 litres)

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		SS 375: 2015 or BS 6920: 2014 and SS 375: Part 1: 2015, Clause 8	Effect of non-metallic materials on potable water
		AS/NZS 4020: 2005/2018, Appendix H, Extraction of metals	Effect of metallic materials on potable water. Evaluated in accordance with WHO guidelines for Drinking Water Quality – Fourth Edition 2011
		SS 270: 2015	Elastomeric seals for pipe joints for potable water
		If applicable, all copper alloy water fittings except for exposed terminal fittings shall be of gunmetal, bronze or DZR brass materials only	
		BS EN 1982: 2008	Requirement on bronze and gunmetal material
		BS EN 12165:1998/ 2011/ 2016 BS EN 12163:1998/ 2011/ 2016 BS EN 12420:1999 or 2014	Requirement on DZR brass materials
	(c) Waterless Urinals	ASME A112.19.19: 2016, Section 6	Paragraph 5(c) of WELS guidebook dated 4 May 18
4	Clothes Washing Machine	(i) <b><u>Water Efficiency:</u></b> IEC 60456 Edition 5.0 (2010-02), Clause 8.6  Or  BS EN 60456: 2005, Clause 11, relating to measurement of water consumption	Paragraph 1(4) of Annex 1A of WELS Guidebook dated 1 Sep 2021



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No.	Product Description	Test Standard Number		Test Standard Description
5	Showerheads	(i)	<b><u>Water Efficiency:</u></b> AS 3662: 2005, Clause 5.1 or AS 3662: 2013, Clause 5.1	Paragraph 1 of Annex 1C of WELS Guidebook dated 1 Sep 2021  Performance of showers for bathing
6	Dishwasher	(i)	<b><u>Water Efficiency</u></b> EN 50242: 2016, Clause 8.2 or EN 60436: 2016, Clause 8.2 or IEC 60436: 2015, Clause 8.2	Paragraph 1(5) of Annex 1A of WELS Guidebook dated 1 Sep 2021
7	Washer Extractor intended for commercial use	(i)	<b><u>Water Efficiency</u></b> BS EN 17116-4: 2019, Clause 9.1 and 9.2	WELS Guidebook (1 Sep 2021), Clause 5e(i) – Washer Extractor
8	Dishwasher intended for commercial use	(i)	<b><u>Water Efficiency</u></b> IEC 63136: 2019, Clause 7	WELS Guidebook (1 Sep 2021), Clause 5e(i) – Commercial Dishwasher
9	High Pressure Washer (HPW) intended for general cleaning only	(i)	<b><u>Water Efficiency</u></b> PUB Stipulation, PUB WELS Guidebook (22 Jun 2021)	WELS Guidebook (1 Sep 2021), Clause 5e(i) – High Pressure Washer (HPW)

Overseas location(s) with key activities:

Nil

Country where certificates are issued to:

Singapore