

SINGAPORE STANDARD

SS 574 : Part 1 : 2012

(ICS 91.140.70)

SPECIFICATION FOR

Dual flush low capacity water closet (WC) up to 4.5/3.0 litres capacity

Part 1 : WC flushing cisterns

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Head
Standards
SPRING Singapore
1 Fusionopolis Walk
#01-02 South Tower, Solaris
Singapore 138628
Tel: (65) 6278 6666 Fax: (65) 6278 6667
Email: standards@spring.gov.sg

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	Er. Tang Pei Luen	<i>JTC Corporation</i>
	Mr Teoh Wooi Sin	<i>Singapore Institute of Surveyors and Valuers</i>
Co-opted Member	: Prof Choo Yoo Sang	<i>National University of Singapore</i>

The Technical Committee on Building Maintenance and Management appointed by the Building and Construction Standards Committee and responsible for the preparation of this standard consists of representatives from the following organisations:

	Name	Capacity
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Dy Chairman	: Er. Tang Pei Luen	<i>Member, Building and Construction Standards Committee</i>
Secretary	: Ms Barbara Bok	<i>SPRING Singapore</i>
Members	: Mr Chan Kim Mun Eric	<i>Association of Property and Facility Managers</i>
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	Mr Chue Fook Chee	<i>CNA Group Ltd</i>
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	Mr Tan Chee Hoon	<i>Public Utilities Board</i>
	Er. Joseph Toh	<i>Institution of Engineers, Singapore</i>
Co-opted Members	: Mr K Ramanathan	<i>Individual Capacity</i>
	Er. Yeow Mei Leng	<i>Individual Capacity</i>

The Working Group appointed by the Technical Committee to assist in the preparation of this standard comprises the following experts who contributed in their *individual capacity*:

	Name
Convenor	: Mr Ramahad Singh
Members	: Mr Steven Cheong Kum Hong
	Ms Chua Geok Lee
	Mr Kuah Siong Lim
	Mr Victor Lau Kam Kok
	Mr Jimmy Lee Shen Sun
	Mr Leong Cheng Wee
	Mr Loh Mun Wah
	Ms Tan Ai Li
	Mr William Tang Kok Khiong
	Mr Tham Yew Cheong
	Mr Yusoof Aynuddin

The organisations in which the experts of the Working Group are involved are:

Association of Consulting Engineers Singapore
Housing & Development Board
Institution of Engineers Singapore
Public Utilities Board
Real Estate Developers' Association of Singapore
SETSCO Services Pte Ltd
Singapore Sanitary Ware Importers & Exporters Association
Singapore Plumbing Society
TÜV SÜD PSB Pte Ltd

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Foreword

This Singapore Standard was prepared by a Working Group appointed by the Technical Committee on Building Maintenance and Management which is under the purview of the Building and Construction Standards Committee.

The principal objective of this part of this Singapore Standard is to stipulate the quality and standard required of low capacity water closet (WC) flushing cisterns with full flush volumes of up to 4.5 litres and reduced flush volumes of up to 3.0 litres that are used in Singapore. This part of the Singapore Standard shall be used in conjunction with SS 574 : Part 2 : 2012 'Specification for dual flush low capacity water closet (WC) up to 4.5/3.0 litres capacity – WC pans'.

SS 574 : Parts 1 and 2 replace SS 378 : 1996 – 'Low capacity WC flushing cisterns up to 4.5 L maximum' and SS 379 : 1996 – 'Vitreous china WC pans for use with low capacity WC flushing cisterns up to 4.5 L maximum'.

In the preparation of this standard, reference was made to the following publications:

- | | | |
|-----|----------------------------------|---|
| 1. | AS 1172.1 : 2005 | Water closets (WC), Part 1 : Pans |
| 2. | AS 1172.2 : 1999 | Water closets (WC) pans of 6/3 L capacity or proven equivalent, Part 2 : Pans |
| 3. | AMSE A112.19.2-2008/CSA B45.1-08 | Ceramic plumbing fixtures |
| 4. | ASME A112.19.14-2006 | Six-liter water closet equipped with a dual flushing device |
| 5. | BS 1125 : 1987 | WC flushing cisterns (including dual flush cisterns and flush pipes) |
| 6. | BS 1212 : 1991 | Float operated valves, Part 4 : 1991 Specification for compact type float-operated valves for WC flushing cisterns (including floats) |
| 7. | BS 3402 : 1969 | Quality of vitreous china sanitary appliances |
| 8. | BS EN 33 : 2003 | Pedestal WC pans with close-coupled flushing cistern – Connecting dimensions |
| 9. | BS EN 37 : 1999 | Pedestal WC pans with independent water supply – Connecting dimensions |
| 10. | BS EN 997 : 2003 | WC pans and WC suites with integral trap |
| 11. | BS EN 997 : 2012 | WC pans and WC suites with integral trap |
| 12. | BS EN ISO 877 : 2010 | Plastics – Methods of exposure to solar radiation |
| 13. | BS EN ISO 4892 series | Plastics – Methods of exposure to laboratory light sources |
| 14. | ISO 4582 : 2007 | Plastics – Determination of changes in colour and variations in properties after exposure to daylight under glass, natural weathering or laboratory light sources |

- | | | |
|-----|---------------------|---|
| 15. | SS 69 : 1981 (1996) | Specification for floats (plastics) for float operated valves for cold water cisterns |
| 16. | SS 378 : 1996 | Low capacity WC flushing cisterns up to 4.5 L maximum |
| 17. | SS 379 : 1996 | Vitreous china WC pans for use with low capacity WC flushing cisterns up to 4.5 L maximum |

Acknowledgement is made for the use of information from the above publications.

At the time of publication, this standard is expected to be used by the national water agency PUB, manufacturers, suppliers and retailers of water closets, water closet flushing cisterns and water closet pans, testing bodies, professional engineers, licensed water service plumbers and qualified persons for building projects.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. SPRING Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

1. *Singapore Standards are subject to periodic review to keep abreast of technological changes and new technical developments. The revisions of Singapore Standards are announced through the issue of either amendment slips or revised editions.*
2. *Compliance with a Singapore Standard does not exempt users from legal obligations.*

Specification for dual flush low capacity water closet (WC) up to 4.5/3.0 litres capacity – Part 1 : WC flushing cisterns

1 Scope

Part 1 of this standard specifies requirements for dual flush low capacity water closet (WC) flushing cisterns with full flush volumes of up to 4.5 litres and reduced flush volumes of up to 3.0 litres equipped with a side or bottom inlet supplied with a water inlet valve, valve-type flushing device and the necessary flush pipes.

2 Normative references

The following referenced documents are indispensable for the application of this standard. The latest edition of the referenced document (including any amendments) applies.

AS/NZS 4020	Testing of products for use in contact with drinking water
BS 1212 series	Float operated valves
BS 2779	Specification for pipe threads for tubes and fittings where pressure-tight joints are not made on the threads (metric dimensions)
BS 3402	Quality of vitreous china sanitary appliances
BS 6920 series	Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water
BS EN 1057	Copper and copper alloys - Seamless, round copper tubes for water and gas in sanitary and heating applications
BS EN 10088-2	Stainless steels - Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes
BS EN ISO 4892 series	Plastics – Methods of exposure to laboratory light sources
SS 213	Unplasticised PVC pipes and fittings for soil, waste and vent applications
SS 270	Elastomeric seals for joints in pipework and pipelines
SS 375 series	Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water