

## STANDARD INFORMATION

**Standard Number:** ASME A112.19.2 / CSA B45.1  
**Standard Name:** Ceramic Plumbing Fixtures  
**Standard Edition and Issue Date:** 3<sup>rd</sup> Edition Dated July 1, 2018  
**Date of Revision:** July 1, 2018  
**Date of Previous Revision of Standard:** July 1, 2013

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **January 7, 2020**

## IMPACT, OVERVIEW, AND ACTION REQUIRED

**Impact Statement:** A review of all Listing Reports is necessary to determine which products comply with new/revise requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revise requirements.

### Overview of Changes:

- update to water consumption markings
- updated pressure requirement for the joint seal test
- flange test has been amended
- addition of shower outlet dimensions

Specific details of new/revise requirements are found in table below.

**If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).**

### Client Action Required:

**Information** – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revise paragraphs noted in the attached or explain why these new/revise requirements do not apply to your product (s).

***Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.***



## STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
<i>Additions to existing requirements are <u>underlined</u> and deletions are shown <del>lined out</del> below.</i>		
4	Info	<b>General requirements</b>
4.3	Info	<b>Waste fitting openings, drainage, and overflows</b>
4.3.2	Info	<b>Overflows</b>
4.3.2.1	Info	<b>Lavatories, sinks, and bidets</b>
4.3.2.1.3		<b><i>New clause added;</i></b>  Overflows shall comply with Clause 6.6.
4.3.2.2		<b><i>New clause added;</i></b>  Overflows in bathtubs may be provided at the option of the manufacturer. When overflows are provided, their dimension, location, and position in relation to the waste outlet in the fixture shall be as shown in Figure 8.  Variations in location, geometry, diameter, and angle of orientation of the overflow opening shall be acceptable when factory-provided waste and overflow fittings are used.  Note: Some plumbing codes require bathtub overflows.
4.7	Info	<b>Additional requirements for urinals</b>
4.7.3		For urinals operated by flushometer valves, the standard nominal spud size shall be <u>1/2 3/4</u> , 1-1/4, or 1-1/2. Other spud dimensions shall be as specified in <del>CSA B125.3</del> ASME A112.19.5/CSA B45.15.
4.8	Info	<b>Additional requirements for lavatories, sinks, and bidets</b>
4.8.1	Info	<b>Openings and mounting surfaces for supply fittings</b>
4.8.1.4		<b><i>New clause added;</i></b>  When the thickness along the exterior edge of a lavatory is less than 6 mm (0.25 in), the load tests in Clause 6.7.3 shall be performed. The thickness shall not be less than 3 mm (0.12 in) along any point at the edge and the thickness shall return to a minimum of 6 mm (0.25 in) within a distance of 75 mm (3 in) from the nearby edge.
6	Info	<b>Tests — Materials, finishes, structural integrity, and seals</b>
6.7	Info	<b>Structural integrity tests for all wall-mounted plumbing fixtures and thin-wall lavatories</b>
6.7.3	Info	<b>Wall-mounted and thin-wall lavatories</b>



CLAUSE	VERDICT	COMMENT
		<b>Wall-mounted lavatories</b>
6.7.3.1		A vertical load of 1.1 kN (250 lbf) shall be applied on the top surface on the front of the lavatory rim <u>using a 76 mm (3 in) diameter load-distribution disk resting on a 13 mm (0.5 in) thick sponge rubber or equivalent pad.</u>
		<b><i>New clause added;</i></b>
		<b>Thin-wall lavatories</b>
6.7.3.2		The load tests shall be conducted using a 76 mm (3 in) diameter load distribution disk resting on a 13 mm (0.5 in) thick sponge rubber or equivalent pad, as follows:  a) A vertical load of 500 N (112 lbf) shall be applied along the centre of the top surface of the lavatory rim. b) A horizontal load of 300 N (67 lbf) shall be applied along the top front edge of the lavatory rim against the lavatory.
7	Info	<b>Water closet tests</b>
7.3	Info	<b>Water consumption test</b>
		The average of the total flush volumes obtained in Clause 7.3.3 e) over the range of pressures specified in Table 5 shall not exceed
7.3.5		a) 4.8 Lpf (1.28 gpf) for <u>single-flush high-efficiency water closets;</u> b) <u>6.0 Lpf (1.6 gpf) for the full flush volume mode of dual-flush high-efficiency water closets;</u> and c) 6.0 Lpf (1.6 gpf) for low-consumption water closets.
7.6	Info	<b>Surface wash test</b>
		<b>Procedure</b>
		The flushing surface of the test bowl <u>shall be flushed</u> clean with a mild liquid dishwashing detergent. The test shall be conducted as follows:
7.6.2		a) Rinse and dry the flushing surface. b) Draw a continuous horizontal ink line around the circumference of the flushing surface, approximately 25 mm (1.0 in) below the rim jets, with the marker specified in Clause 7.6.1. c) Trip the actuator, hold for a maximum of 1 s, and release. d) Observe the line during and after the flush. e) When the flush cycle is complete, measure and record the length and position of any ink line segments remaining on the flushing surface.
		Items a) to e) complete one test run. These steps shall be repeated until three sets of data are obtained.



CLAUSE	VERDICT	COMMENT
7.9	Info	<b>Waste extraction test</b>
7.9.2	Info	<b>Test media</b>
7.9.2.2	Info	<b>Soybean paste cylinders</b>
		The seven soybean paste cylinders shall have
7.9.2.2.1		<p>a) <u>a nominal content of 34.9% water, 33.81% soybean, 18.5% rice, 12.2% salt, and 1.6% ethyl alcohol by weight;</u>            Note: Total percentages exceed 100% due to rounding.</p> <p>b) a density of <math>1.15 \pm 0.10</math> g/mL (i.e., density greater than that of water);</p> <p>c) a mass of <math>50 \pm 4</math> g per cylinder;</p> <p>d) a length of <math>100 \pm 13</math> mm (<math>4 \pm 0.5</math> in);</p> <p>e) a diameter of <math>25 \pm 6</math> mm (<math>1 \pm 0.25</math> in); and</p> <p>f) a combined mass of <math>350 \pm 10</math> g.</p>
		<b><i>New clause added;</i></b>
7.9.2.2.3		<p><b>Absorption test for the toilet paper</b></p> <p>During testing, the soybean paste cylinders shall be between 18 and 27 °C (65 and 80 °F). Cased cylinders that have been stored in a refrigerator shall be acclimatized by flushing each cylinder at least three times prior to conducting testing.</p>
7.9.2.3	Info	<b>Toilet paper balls</b>
7.9.2.3.4	Info	<b>Wet tensile strength test for the toilet paper</b>
		The wet tensile strength test for the toilet paper shall be conducted as follows:
7.9.2.3.4.1		<p>a) <u>Use a 51 mm (2 in) 3-in</u> Schedule 40 PVC coupling and union nut as a frame to hold the toilet paper.</p> <p>b) Place one sheet of toilet paper on the coupling nut and slide the union nut over the coupling.</p> <p>c) Invert the frame and submerge the toilet paper in water for 5 s.</p> <p>d) Remove the frame from the water and return it to the upright position.</p> <p>e) Place an 8 mm (0.32 in) diameter steel ball weighing <math>2 \text{ g} \pm 0.1 \text{ g}</math> in the centre of the wet sheet of toilet paper.</p>
9	Info	<b>Markings, packaging, and installation instructions and other literature</b>
9.3	Info	<b>Additional markings for water closets and urinals</b>
		<b>Water closet tank repair parts</b>
9.3.4		<p>Water closet tanks shall have a <del>label</del> <u>mark</u> in accordance with <u>Clauses 9.1.2 and 9.1.3</u> indicating at least the following:</p> <p>a) the telephone number of a service department from which end-users can obtain replacement parts;</p> <p>b) the serial or part number of the flush valve seal; and</p> <p>c) information on procuring replacement parts for maintaining the original flush volume.</p>



CLAUSE	VERDICT	COMMENT
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**Waste outlet dimensions**

Old:

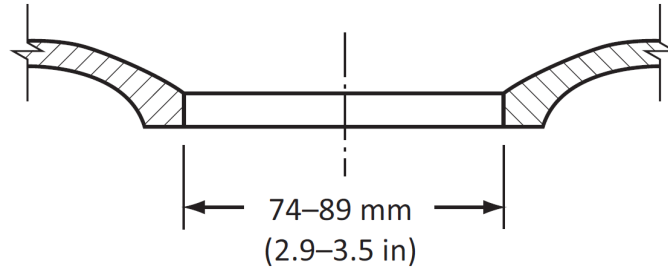
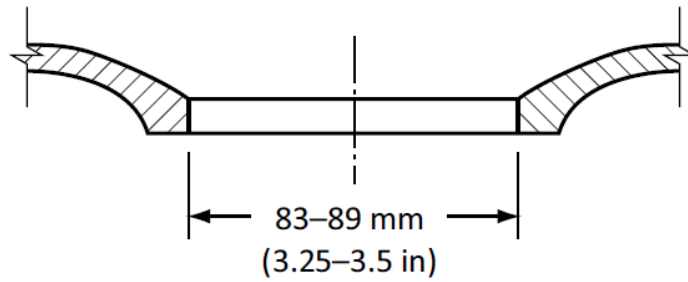


Figure 1

**(g) Shower**

New:



**g) Shower**

CUSTOMERS PLEASE NOTE: This Table and column "Verdict" can be used in determining how your current or future production is or will be in compliance with new/revised requirements.