



**Summary of Substantive Changes
between the 2013 and the 2008 editions
(including Updates No. 1 and No. 2 dated November 2008 and March 2011)
of
ASME A112.19.1/CSA B45.2 “Enamelled cast iron and
enamelled steel plumbing fixtures”**

Presented to the IAPMO Standards Review Committee on November 4, 2013

General: The changes to this standard might have an impact on currently listed products. The substantive changes are:

- Added alternative slip resistant coverage (see Section 4.7.4 and Figure 8).
- Revised the procedure for conducting the tiling-flange seal test to make it consistent with the procedure in CSA B45.5/IAPMO Z124 (see Section 5.4).
- Added waste outlet dimensions for showers (see Figure 1).

Section 4.7.3.1, Flanges:

The raised flange shall be

(a) integral with the bathtub or shower base;

(b) added to an island tub or shower base in the factory; or

(c) field installed using a flange kit that complies with Clause 5.4. Fixtures using field-installed flanges shall be marked in accordance with Clause 6.3 and shall include all necessary parts and fasteners.

Section 4.7.4 Slip-resistant surfaces: Added alternative slip resistant coverage as follows:

The slip-resistant surfaces of bathtubs and shower bases shall comply with ASTM F462 and have the dimensions shown in Figure 8. Alternative slip resistant patterns shall be considered acceptable provided coverage begins within 50 mm (2.0 in) of the basin radius as shown in Figure 8(d).

Section 5.4, Field-installed tiling-flange seal test: Changed the field installed tiling-flange seal test procedure, to make it consistent with the procedure in CSA B45.5/IAPMO Z124, as follows:

5.4.1 Procedure

The tiling-flange seal test shall be conducted as follows:

(a) Set up the specimen ~~install the flange~~ *in accordance with the manufacturer’s instructions.*

(b) Apply a continuous water spray to the flange seal at the joint with the fixture as follows ~~Expose the flange seal at the joint with the fixture to a continuous water spray:~~

(i) using a 30° full jet spray nozzle;

(ii) for 30 min ~~for 15 to 20 min;~~

(iii) from a distance of 1.2 m (4 ft) from the face of the spray nozzle;

(iv) at an angle of 45°;

(v) at a flow rate of 11.4 L/min (3.0 gpm) ~~Use a shower spray with a flow rate of 9.0 ± 0.5 L/min (2.38 ± 0.13 gpm); and~~

(vi) at a temperature of 40 ± 5 °C (104 ± 9 °F) ~~a water temperature of 38 ± 3 °C (100 ± 5 °F).~~

(c) *Inspect the specimen for water transmission* ~~leakage~~ *through the joint to the back of the flange.*



[Note: Full Jet®, narrow angle 30° series, part No. 1/2 GG 3030, manufactured by Spraying Systems Co., North Avenue at Schmale Road, P.O. Box 7900, Wheaton, IL, 60189, has been used for this test.](#)

Table 1, Maximum allowable number of defects on fixtures: Included the allowable number of, large blisters, medium blisters, small blisters, cracks, and chips in the table.

Figure 1, Waste outlet dimensions: Added a figure showing shower waste outlet dimensions.

Figure 8, Slip-resistant surface dimensions for bathtubs: Added a figure of a section view showing the shower base slip resistant surface dimensions.