DETAILS OF CSA B45.5-17/IAPMO Z124-2017 UPDATE

August 2017

The revised “CSA B45.5-17/IAPMO Z124-2017 – Plastic plumbing fixtures” standard has been released. It supersedes the previous edition published in 2011 and replaces:

- CAN/CSA-B45.5-02, Plastic Plumbing Fixtures
- IAPMO/ANSI Z124.1.2-2005, Plastic Bathtub and Shower Units
- IAPMO/ANSI Z124.3-2005, Plastic Lavatories
- IAPMO/ANSI Z124.4-2006, Plastic Water Closets Bowls and Tanks
- IAPMO/ANSI Z124.6-2007, Plastic Sink
- IAPMO/ANSI Z124.9-2004, Plastic Urinal Fixtures

Home Innovation Research Labs will be adopting the revised standard as of Friday, October 13, 2017. Below is a detailed list of the revisions to the requirements for materials, construction, performance, testing, and markings of plastic plumbing fixtures in CSA B45.5-17/IAPMO Z124-2017:

- Many of the changes were editorial only. Performance subsections were established to harmonize the format and ensure consistency in presentation. Most of the figures were moved and renumbered.
- Section 4.2.2 Overflows – Added Section 4.2.2.2 Bathtubs. 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 7 (figure revised in 2017). There is no performance requirement.
- Section 4.4 Bathtubs and shower bases – Removed Section 4.4.3 Minimum dimensions for bathtubs. Requirements have been merged into Section 4.2.2.2.
- Section 4.4 Bathtubs and shower bases – Reassigned Section 4.4.5 to 4.4.4 Diameter, spacing, and grippable length of grab bars. Requirements in section (b) spacing and section (c) minimum grippable length have been revised. Figure 18 has been added to illustrate the requirements.
- Section 4.5 Water closets – Added Section 4.5.2 Concealed tanks.
- Section 5.2 Load and rotation tests for grab bars and grip rails – Renamed Stress tests for grab bars.
- Section 5.2.1 Load test for grab bars – Load test only applies to grab bars now (grip rails removed/separated).
- Section 5.2.2 Rotation test for grip rails – Rotation test only applies to grip rails now (grab bars removed/separated).
- Section 5.2.2 Water leakage test for grab bars and grip rails and Section 5.2.3 Performance – Removed.
- Section 5.6 Waste fitting connection test – Clarified testing procedure and examination.
• Section 5.10 Colorfastness test – Added Section 5.10.3.2 Non-instrumented evaluation. The test sample shall be examined with the unaided eye for significant change in colour or surface texture when compared with the control sample. Instrumented evaluation shall be used if the results of non-instrumented evaluation are uncertain.

• Section 5.26 Inlet connection test – Added.

• Section 5.27 Deflection test – Added.

• Section 6.2 Non-standard fixtures – Removed Section 6.2.2. Fixtures that do not comply with one or more of the dimensional requirements of the Standard shall be marked with an “N” to indicate the non-standard nature of the fixture.

• Figure 1 Waste outlets dimensions – Added Figure 1 (g) Laundry sink outlet with integrated drain fitting.

• Figure 7 Minimum dimensions for bathtubs – Renamed Bathtub overflow. Corrected leader line of Figure 7 (c). Added clarification note.

• Figure 18 Grippable length for grab bars – Added.

• Figure 19 Inlet connection test for water closet tanks – Added.

• Figure 20 Hydrostatic load test for water closet tanks – Added.

As always, if you have any questions about this or any other testing protocol conducted by Home Innovation Research Labs, please don’t hesitate to contact us – 800.638.8556.