



**Summary of Substantive Changes  
Between the 2012 and the 2020 Editions of  
ASME A112.19.7/CSA B45.10 “Hydromassage bathtub systems”**

**Presented to the IAPMO Standards Review Committee on December 7, 2020**

**General:** The changes to this standard should not have an impact on currently listed products. The significant changes are:

- Editorially revising language throughout the Standard for clarification

Section 2, Reference publications: The following standards were added, revised, or deleted as follows:

**ASME (The American Society of Mechanical Engineers)/CSA Group**

ASME A112.18.1-~~2011~~[2018](#)/CSA-B125.1-~~11~~[18](#)

Plumbing supply fittings

ASME A112.18.2-[2015](#)/CSA-B125.2-~~11~~[15](#)

Plumbing waste fittings

ASME A112.19.1-~~2008~~[2018](#)/CSA B45.2-~~08~~[18](#)

Enamelled cast iron and enamelled steel plumbing fixtures

**CSA Group**~~(Canadian Standards Association)~~

~~CAN/CSA-B45.5-02 (R2008)~~

~~Plastic plumbing fixtures (a part of CAN/CSA-B45-Series-02 (R2008), Plumbing fixtures)~~

~~B137 Series-09~~[15](#)

Thermoplastic pressure piping compendium

~~B137.1-09~~[15](#)

Polyethylene (PE) pipe, tubing, and fittings for cold-water pressure services

~~B137.5-09~~[15](#)

Crosslined polyethylene (PEX) tubing systems for pressure applications

~~C22.1-09~~[18](#)

General requirements — Canadian Electrical Code, Part I, Safety standard for electrical installations

~~CAN/CSA-C22.2 No. 218.1-M89~~[13](#)

Spas, hot tubs, and associated equipment

~~C22.2 No. 218.2-93 (R2008)~~[15](#)

Hydromassage bathtub appliances

**CSA Group/IAPMO (Canadian Standards Association/International Association of Plumbing and Mechanical Officials)**

~~CAN/CSA B45.5-02 (R2008)~~[17](#)/IAPMO Z124-2017

Plastic plumbing fixtures



**ASTM International (American Society for Testing and Materials)**

D2444-~~99~~(2010)17

Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)

D2564-~~04~~(2009)<sup>e4</sup>12

Standard Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems F876-~~10~~19

Standard Specification for Crosslinked Polyethylene (PEX) Tubing

**IAPMO (International Association of Plumbing and Mechanical Officials)**

IAPMO ~~PS-033/ANSI Z1033-2010b~~2013e1

Flexible PVC Hoses and Tubing for Pools, Hot Tubs, Spas, and Jetted Bathtubs

~~IAPMO/ANSI Z124.1.2-2005~~

~~Plastic Bathtub and Shower Units~~

**NFPA (National Fire Protection Association)**

70 (~~2011~~2017)

National Electrical Code

**UL (Underwriters Laboratories Inc.)**

1795-~~2009~~2016

Standard for Hydromassage Bathtubs

Section 4 General Requirements:

**4.2 Plumbing fixtures**

Plastic bathtubs shall comply with ~~CAN~~CSA B45.5 or/IAPMO Z124.~~1-2~~. Enamelled cast iron and enamelled steel bathtubs shall comply with ASME A112.19.1/CSA B45.2.

**4.4.3 Flexible hoses**

Flexible hoses shall comply with IAPMO ~~PS033~~/ANSI Z1033.

**5.3.3 Surface evaluation**

**5.3.3.1 General**

After each physical test in Clauses 5.3.4, 5.3.5, and 5.3.6, the surface shall be examined in accordance with Clause 5.3.3.~~12~~ and shall meet the performance requirements of Clause 5.3.3.~~23~~.

**5.3.3.~~12~~ Surface examination procedure**

The surface examination shall be conducted as follows:

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