

Internal Use Only

INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

IAPMO GUIDE CRITERIA FOR

WOOD TYPE PLUMBING FIXTURES

IAPMO IGC 235-2009

1. PURPOSE

- 1.1** The purpose of this standard is to establish a generally acceptable standard for plumbing fixtures which are fabricated from wood type material such as teak or bamboo. Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors and users; to promote understanding regarding materials, manufacture, installation and performance; and to provide for identifying wood type plumbing fixtures complying with this standard.
- 1.2** The provisions of this standard are not intended to prevent the use of any alternate material or method of construction, provided any such alternate meets the intent and requirements of this document and changes are amended to this standard.

2. SCOPE

- 2.1** This standard applies to wood type plumbing fixtures and covers general requirements, strength and performance tests for such products, in addition to method of markings and identification.

3. REFERENCED STANDARDS

- 3.1** All standards referenced herein shall be the current edition of that standard.
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| ANSI A118.10 | Load Bearing, Bonded, Waterproof membranes for thin-set ceramic tile and dimension stone installation |
| ANSI Z124.1.2 | Plastic Bathtub Units |
| ASME A112.18.1 | Plumbing Fixture Fittings |
| ASME A112.19.4 | Porcelain Enameled Formed Steel Plumbing Fixtures |
| ASME A112.19.7 | Whirlpool Bathtub Appliances |
| ASTM A 240 | Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications |
| ASTM D 5603 | Rubber Compounding Materials—Recycled Vulcanizate Particulate Rubber |

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4. GENERAL REQUIREMENTS

4.1 Wooden Material.

4.1.1 Teak. Teak material shall be made of solid burma teak wood having a minimum wall thickness of 1 ¼ inches.

4.1.2 Bamboo. Bamboo material shall be made of solid bamboo having a minimum wall thickness of ¾ inch.

4.2 Rubber. When applicable, the rubber material shall be made of silane-modified polyether with a density of 93.6 lb/ft³ (1.5 g/cm³) at 68°F (20°C) and insoluble in water.

4.3 Metal Components. When applicable, stainless steel material shall be a minimum type 304 complying with the requirements of ASTM A 240. Copper alloys material shall contain at least 58% copper.

4.4 Fixtures. Bathtub units shall comply with the applicable requirements in ASME A112.19.1/CSA B45.2. Sinks and lavatory shall comply with the applicable requirements in ASME A112.19.2/CSA B45.1.

4.5 Coatings.

4.5.1 Teak. The teak wood shall be coated with linseed oil and shall comply with the testing requirements in Section 5.1 of this standard.

4.5.2 Bamboo. The bamboo shall be coated with a polycrylic coating and shall comply with the testing requirements in Section 5.1 of this standard.

4.6 Plumbing Fixture Fittings. When provided, plumbing fixture fittings shall comply with the requirements in ASME A112.18.1/CSA B125.1.

4.7 Draining. The pitch of the bottom of the bathtub toward the drain shall comply with the requirements in ASME A112.19.1/CSA B45.2

5. TESTING REQUIREMENTS

5.1 Absorption Test. Two samples blocks which are 3 X 3 inches of the tub shall be measured and weighed and recorded. The blocks shall be submerged completely in water for a period of 24 hours. After the 24 hours, the blocks shall be removed from the water and measured and weighed again. There shall be less than 0.05% change in size or weight in the blocks upon completion of test. Any change shall constitute failure.

5.2 Load Tests. Tubs shall be tested and comply with the performance requirements in Section 4 in ANSI Z124.1.2. Lavatories shall be tested and comply with the performance requirements in Section 4 in ANSI Z124.3. Sinks shall be tested and comply with the performance requirements in Section 4 in ANSI Z124.6.