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INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

IAPMO GUIDE CRITERIA

FOR

COPPER ALLOY OR ALUMINUM ALLOY SINKS AND LAVATORIES

IGC 194-2004a

1. PURPOSE

- 1.1** The purpose of this standard is to establish a generally acceptable standard for copper alloy or aluminum alloy sinks and lavatories. Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors and users; to promote understanding regarding design, materials, manufacturing and installation; and to provide for identifying of copper alloy or aluminum alloy sinks and lavatories.
- 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 of this standard.

2. SCOPE

- 2.1** This standard covers performance test requirements and marking requirements for copper alloy or aluminum alloy sinks and lavatories. This standard covers material, general and testing requirements in addition to methods of marking and identification.

3. REFERENCED STANDARDS

- 3.1** All standards referenced herein shall be the current edition of that standard as published.
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| ANSI Z124.3 | Plastic Lavatories |
| ASME A11218.1M | Plumbing Fixtures Fittings |
| ASME A112.19.3M | Stainless Steel Plumbing Fixture (Designed for Residential Use) |
| ASTM B 26 | Aluminum – Alloy Sand Casting |
| ASTM B 117 | Operating Salt Spray (Fog) Apparatus |
| CSA B45.0 | Plumbing Fixtures |

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4. GENERAL REQUIREMENTS

- 4.1 Surface Finish.** The copper alloy or aluminum alloy sinks and lavatories shall be free from cracks, chipped areas, and wrinkles, visible to the unaided normal eye when inspected under ordinary light at a distance of 2 ft. (610 mm).
- 4.2 Materials.**
- 4.2.1** Copper alloys shall contain at least 58% copper.
- 4.2.2** Sand Casting Aluminum alloy shall comply with Table 1 of ASTM B 26.
- 4.3 Coatings.** Coated parts shall comply with section 2.2 "Coatings" of ASME A112.18.1 or section 4.11 "Plated or Coated Parts" of CSA B45.0.
- 4.4 Dimensions.** The overall dimensions and tolerances shall be in accordance manufacturer's specifications.
- 4.5 Flatness of Flanges/Ledges.** Flanges and ledges shall comply with section 4.2 of ASME A112.19.3.
- 4.6 Faucet Holes.** When provided, Faucet holes shall comply with section 3.5 of ASME A112.19.3 or section 4.10 "Opening and Flat Areas for Supply Fittings" of CSA B45.0.
- 4.7 Lavatory Overflows.** When provided, lavatory overflows shall comply with section 3.3.1 of ASME A112.19.3 or section 7.1 of CSA B45.0.
- 4.8 Outlets.** Outlets shall comply with section 3.4(a) in ASME A112.19.3 for kitchen sinks, 3.4(b) in ASME A112.19.3 for bar sinks, and 3.4(c) in ASME A112.19.3 or section 7.2 in CSA B45.0 for lavatories.

5. TESTING REQUIREMENTS

- 5.1 Corrosion Test.** Sinks and lavatories shall be tested in accordance with ASTM B 117, using a 5% salt solution for a period of 96 hours. The corrosion spot shall not be more than 1/32" (0.8 mm) in any dimension.
- 5.2 Load Tests.**
- 5.2.1** The unit shall be installed in accordance with the manufacturer's instructions. A preload of 292 lbf. (1.3 kN) shall be applied to the center of the bottom of the fixture by means of rigid disc 2-15/16 inches (75 mm) in diameter covered by a 1/2 inch (13 mm) thickness of sponge rubber or other suitable soft material between the disc and the surface being loaded. If the drain is located at the center of the bottom of the fixture, the preload shall be applied over the center of the waste fitting. The preload shall be applied for 2 minutes to allow settlement of the test frame and any initial slip fasteners to occur and then be removed.

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