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INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

MATERIAL AND PROPERTY STANDARD

FOR

TERRAZZO, MARBLE, CONCRETE, GRANITE, AND SLATE PLUMBING FIXTURES

IAPMO PS 99-2007

1. PURPOSE

- 1.1** The purpose of this standard is to establish an acceptable standard for terrazzo, marble, concrete, granite, and slate plumbing fixtures. Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors and users; to promote an understanding regarding materials, manufacture and installation; and to provide for identifying terrazzo, marble, concrete, granite, and slate plumbing fixtures that conform to 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 covers physical requirements pertaining to terrazzo, marble, concrete, granite, and slate material used to manufacture terrazzo or concrete plumbing fixtures in general use. This standard covers material, structural and physical requirements in addition to methods of marking and identifications.

3. REFERENCED STANDARDS

- 3.1** All standards referenced herein shall be the current edition of that standard.
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|---------------------------|---|
| ANSI Z124.1.2 | Plastic Bathtub and Shower Units |
| ANSI Z 124.3 | Plastic Lavatories |
| ANSI Z 124.6 | Plastic Sinks |
| ASME A112.18.2/CSA B125.2 | Plumbing Waste Fittings |
| ASTM F 462 | Consumer Safety Specification for Slip-Resistant Bathing Facilities |

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4. GENERAL REQUIREMENTS

4.1 Material

4.1.1 Terrazzo, Marble, Concrete, Granite, and Slate. Cast-stone terrazzo and concrete composition shall be composed of fine and coarse mineral aggregate and portland cement binder. The color of the aggregate and cement shall be such as to produce the color. Marble, granite, and slate shall comply with the requirements of this standard.

4.1.1.1 Fine Aggregate. Fine aggregate shall be marble chips, sand, stone or slag screenings, or other inert material with similar characteristics, shall be well graded and pass a 1/4 in. (6.4 mm) screen.

4.1.1.2 Coarse Aggregate. Coarse aggregate shall be marble chips or other inert material with similar hardness characteristics, and shall pass a 3/8 in. (9.5 mm) screen and retained on a 1/4 in. (6.4 mm) screen.

4.1.2 Mix. The mix shall be pressure cast or vibrated to produce a minimum compressive strength of 3000 psi (20685 kPa), seven days after casting.

4.1.3 Color. Cast terrazzo and concrete receptor shall be mottled white or gray or other, at manufacturer's or consumer's option.

4.2 Finish. All surface voids shall be filled with wet cement and polished or troweled to match adjoining surfaces. Exposed surfaces shall be ground and polished so as to be even, uniform and smooth, without pits; without air holes; and free from loose marble chips. After grinding, wash and clean the surface and then apply a sealer over the exposed surface of the product.

4.3 Construction - Shower Receptor. The receptor shall meet the requirements of the Uniform Plumbing Code. Prefabricated plastic shower receptors shall comply with the requirements in ANSI Z124.1.2. Tile shower receptors shall comply with the requirements in IAPMO PS 106.

4.4 Drains and Strainers. Drains and strainers for shower receptors shall meet the requirements of ASME A112.18.2/CSA B125.2.

5. TESTING REQUIREMENTS

5.1 Drain fitting connection test for shower receptor, bathtubs, lavatories, and sinks shall be performed as described in ANSI Z124.1.2, ANSI Z124.3, and ANSI Z124.6, respectively.

5.2 Point impact and load tests shall be performed on shower receptor, bathtubs, lavatories, and sinks as described in ANSI Z124.1.2, ANSI Z124.3, and ANSI Z124.6, respectively.

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