

Internal Use Only

INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

STANDARD FOR

DRAINS FOR PREFABRICATED MANUFACTURED HOME¹ SHOWERS

IAPMO TS 26-97

1. PURPOSE

- 1.1** The purpose of this Standard is to establish a standard for drains for prefabricated manufactured home showers. Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, installers, inspectors, and users; to promote understanding regarding materials, manufacture and installation; and to provide for identifying drains that conform with the Standard.

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 physical requirements and tests for types of materials, thickness, threads, dimensions, and other significant properties in addition to general description of materials used. Certain features of construction and finish of the final product are also given, together with the method of marking and identification.
- 2.2** The drains, covered by this Standard, are intended for use in prefabricated manufactured home showers.

3. MATERIAL AND GENERAL REQUIREMENTS

- 3.1** Bodies shall be of brass, stainless steel, approved plastics or equally durable and corrosion resistant material.
- 3.2** Cast brass shall conform to ASTM² Specification B584 (latest edition), Specification for Copper-Alloy Sand Castings for General Application, Alloy C85200.
- 3.2.1** Die cast brass shall conform to ASTM² D176 (latest edition), Specification for Copper Alloy Die Castings Alloy C87800.
- 3.2.2** Stainless steel components shall be a minimum 300 series.

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- 3.2.3** ABS materials shall be Class 4-2-2 suitable for injection molding as defined in ASTM² D 1788 (latest edition), Specification for Rigid Acrylonitrile-Butadiene-Styrene (ABS) Plastics.
- 3.3** Metallic strainers shall be either 302 stainless steel of a minimum 0.038 in. (0.97 mm) in thickness, or brass, a minimum of 0.050 in. (1.27 mm) in thickness. Non-metallic strainers shall be of such strength and durability to comply with Section 5.
- 3.3.1** Strainers may be either snap-on or screw fastened.
- 3.4** Spud nut shall be hexagon or have lugs for proper tightening.
- 3.5** Friction washers shall be corrosion resistant metal or fiber.
- 3.6** Screws shall be stainless steel or brass.

4. DETAIL REQUIREMENTS

- 4.1** Dimensions are minimum, unless otherwise indicated. See Plate #1, 2 and 3 for detail measurements.
- 4.2** Wall thickness of cast brass bodies shall be a minimum of 0.10 in. (2.54 mm) ABS plastic shall be a minimum of 0.125 in. (3.2 mm).
- 4.2.1** The top flange of the body shall be a minimum of 0.040 in. (1.02 mm) and a maximum of 0.150 in. (3.81 mm) in thickness.
- 4.3** Friction washers shall be a minimum of 0.040 in. (1.02 mm) thick with a 4-1/4 in. (108 mm) O.D.
- 4.4** The drain outlet shall have a minimum of five (5) 1-1/2 in. (38.1 mm) male straight pipe threads complying with ANSI³/ASME⁴ B1-20.1 (latest edition), Pipe Threads General Purpose (inch).

5. TESTING REQUIREMENTS

- 5.1** Non-metallic strainers shall be tested by applying a 200 lb. (90.7 kg) load for 60 ± 5 seconds using a 2 in. (50.8 mm) diameter Tup B as specified in ASTM² D 2444 (latest edition), Impact Resistance of Thermoplastic Pipe and Fittings by means of a Tup (falling weight).