

# Internal Use Only

## INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

### MATERIAL AND PROPERTY STANDARD

#### FOR

### BATH WASTE STRAINER DRAINS

#### IAPMO PS 55-92

### 1. PURPOSE

- 1.1** The purpose of this Standard is to establish a generally acceptable Standard for bath waste strainer drain. 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 bath waste strainer drain 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 of this Standard.

### 2. SCOPE

- 2.1** This Standard covers dimensions, materials and test requirements for strainer drains used with bathwaste assemblies.

### 3. REFERENCE STANDARDS

|                     |                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------|
| ANSI/ASME A112.18.1 | Plumbing Fixture Fittings                                                                                           |
| ANSI/ASME B1.20.1   | Pipe Threads Except Dry Seal                                                                                        |
| ASTM B 86           | Zinc Alloy Die Casting                                                                                              |
| ASTM B 240          | Zinc Alloys in Ingot Form for Die Castings                                                                          |
| ASTM D 1784         | Specification for Rigid Poly (Vinyl Chloride) (PVC) Compound and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds |
| ASTM D 3965         | Specification for Rigid ABS Compounds for Pipe and Fittings                                                         |
| ASTM D 4101         | Propylene Plastic Molding and Extrusion Materials                                                                   |
| ASTM F 409          | Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings                                          |

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## 4. MATERIAL

- 4.1** Strainer body shall be brass, zinc, PVC, ABS, or Polypropylene (PP). Strainer body produced from plastic material shall be with, or without, stainless steel rim.
- 4.2** The strainer stopper sub-assembly shall be brass, zinc, PVC, ABS or polypropylene (PP) plastic or a combination of these materials.
- 4.3** The PVC plastic shall be virgin PVC plastic meeting the requirements of ASTM D 1784, cell classification 12454C.
- 4.4** The ABS plastic shall be virgin ABS plastic which shall meet the requirements of ASTM D 3965, cell classification of 2-0-2-1-1.
- 4.5** The polypropylene (PP) plastic shall be virgin polypropylene plastic which shall meet the requirements of cell classification of PP-111 per ASTM D 4101.
- 4.6** Clean reworked ABS or PP plastic material generated from the manufacturer's own production may be used by the same manufacturer.
- 4.7** Zinc alloy shall be UNS Z33520 (Common Alloy #3) and shall meet the requirements of ASTM B 86. If in the form of ingot, it shall be UNS Z33521 and shall meet the requirements of ASTM B 240.
- 4.8** Brass shall be 58.15% copper and 1.83% lead.
- 4.9** Stainless steel shall be commercial grade, 300 series.
- 4.10** Finishes can be chrome-plate, polished brass, or other special types such as antique brass.
- 4.11** Strainer body coatings shall meet the applicable requirements of Section 5.2 of ANSI/ASME A112.18.1.

## 5. GENERAL REQUIREMENTS

- 5.1** The strainer shall conform dimensionally to the requirements given for drains in ASTM F 409.
- 5.2** Strainer body thread shall be 1-1/2 - 11-1/2 NSPM or 1-5/8-16 NSPM per ANSI/ASME B1.20.1.
- 5.3** The strainer body shall be homogeneous throughout and free of visible cracks, holes, foreign inclusions or other injurious defects. It shall be as uniform as commercially practicable in coloropacity, density and other physical properties.
- 5.4** Washers and sealing components shall be of material suitable for water sealing.

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