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INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

IAPMO GUIDE CRITERIA FOR

SINK OUTLET DUAL SCREENING DEVICE IAPMO IGC 218-2005

1. PURPOSE

- 1.1** The purpose of this standard is to establish a generally acceptable standard for sink outlet dual screening devices. 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 sink outlet dual screening devices.
- 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 minimum standards for materials in the construction of sink outlet dual screening devices, and to prescribe minimum test requirements for the performance of these devices, together with methods of marking and identification.

3. REFERENCED STANDARDS

- 3.1** All standards referenced herein shall be the current edition of that standard.
- | | |
|----------------|---|
| ASME A112.18.2 | Plumbing Fixture Waste Fittings |
| ASTM B 604 | Decorative Electroplated Coatings of Copper plus Nickel plus Chromium on Plastics |
| ASTM D 4101 | Polypropylene Injection and Extrusion Materials |

4. DEFINITIONS

- 4.1** The screening referred to is “the removal of solid waste matter” from the waste water being discharged to septic tank systems, home sewerage treatment systems, grease traps, interceptors or arrestors, fat, oil and grease separation systems or directly into the municipal sewage system.
- 4.2** Dual means the device first screens out large solids using a “primary filter “ smaller solids that pass through the primary filter are then screened and retained in the

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screening basket.

- 4.3** The basket is the device that accumulates solid debris and prevent it's discharge into the drain At some point if the basket is not emptied then clogging (blockage of the waterway) will occur that is the purpose and intent of the invention.

5. GENERAL REQUIREMENTS

- 5.1 Material.** Copper, Stainless steel alloy, PVC, and ABS materials shall comply with the requirements in Section 2.1 in ASME A112.18.2. Polypropylene material shall comply with the requirements in ASTM D 4101. Decorative Electroplated Coatings of Copper plus Nickel plus Chromium on Plastics shall comply with the requirements in ASTM B 604. Nylon resin material shall meet the following minimum property requirements:

Property	Value	ASTM Test Method
Tensile Strength	12000 psi (82.8 MPa)	D 638
Elongation at Break @73°F (23°C)	52 %	D 638
Flexural Modulus @73°F (23°C)	400000 psi (2760 MPa)	D 790
Heat Deflection Temp		D 648
@ 264 psi (1.8 MPa)	194°F (90°C)	
@ 66 psi (0.5 MPa)	455°F (235°C)	
Izod Impact Strength @73°F (23°C)	≥1.0 ft lb/in (≥53 J/m)	D 256
Melting Point	504°F (262°C)	D 3418
Specific Heat	0.65 Btu/lbf (2750 J/kgK)	
Specific Gravity	1.14	D 792
Hardness Rockwell R	R121	D 785

- 5.2 Flow Ways.** The internal flow ways of the dual screening device shall be free from burrs and obstructions and the cross-sectional area shall not be less than the cross-sectional area of the inlet.
- 5.3 Threads.** Threaded ends shall comply with the requirements in Section 2.5 in ASME A112.18.2.
- 5.4 Outlet.** The outlet size of the device shall comply with the requirements in Section 2.8.1.2 in ASME A112.18.2.
- 5.5 Means of Access.** A means of access to the screening device shall be provided for repair and maintenance in the installed position. The means of access shall be water tight once securely tightened.
- 5.6** The device shall be capable of accommodating a standard 3 ½" sink outlet drain opening.
- 5.7** Washers when required shall be made from a waterproof material suitable for sealing water joints and shall be a minimum of 0.04" (1.02 mm) thickness.