

Internal Use Only

INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS

IAPMO GUIDE CRITERIA FOR CONCEALED TYPE WATERLESS URINALS IGC 278-2010

1. PURPOSE

- 1.1** The purpose of this standard is to provide the minimum design and performance criteria for concealed type waterless urinals. This standard is not intended to be a specification guide nor is it intended to restrict design. Its purpose is to serve as a guide for producers, distributors, architects, engineers, contractors, inspectors, and users; to promote understanding regarding materials, manufacture and installation; and to provide for identifying concealed type waterless urinals that conform 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 alternative meets the intent and requirements of this document and changes are amended to this standard.

2. SCOPE

- 2.1** This standard applies to concealed type waterless urinals. It covers definitions, materials and finishes, general requirements, performance requirements and marking requirements for waterless urinals.

3. REFERENCE STANDARDS

- 3.1** All standards referenced herein shall be the current edition.

ASME A112.19.19	Vitreous Ceramic Nonwater Urinals
IAPMO/ANSI Z124.9	Plastic Urinals

4. DEFINITIONS

- 4.1** Concealed Type Waterless Urinal - a urinal which does not require water for its operation and which is installed and concealed within a wall.

5. GENERAL REQUIREMENTS

- 5.1 Plastic Material.** Plastic urinal and components shall meet the material requirements of Sections 3 and 5 of IAPMO/ANSI Z124.9.

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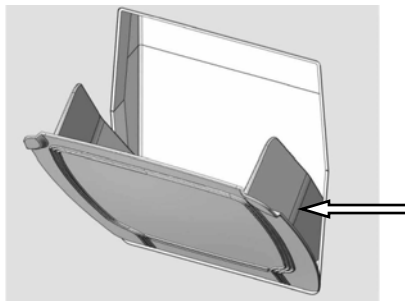
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6. TESTING REQUIREMENTS

- 6.1** Waterless urinals shall comply with all the applicable requirements of ASME A112.19.19.
- 6.2** **Cycle Test.** Install urinal per manufacturer's installation instructions. Open and close the concealed door of the urinal for 10,000 cycles using 10 lbf. Upon completion of cycles, pour water into urinal door to simulate usage and check for leakage at door connection. Urinal shall not show signs of leakage and shall operate as intended.
- 6.3** **Impact Test.** Install urinal per manufacturer's installation instructions. Open concealed door to its normal operating position. A 5 inch diameter sandbag with a mass of 11 lb shall be suspended from an arm 4 feet in length so that at rest it just touches the desired point of impact. The sandbag shall be released from the position on its arc of travel having 30 inches greater elevation than its rest position. Impact load tests shall be conducted twice at each side of the door at the midpoint of the door between top of the door and connection components to the urinal base. See figure below. If door becomes dislodged, reattach and continue test.

After testing both sides of the door, pour water into urinal door to simulate usage and check for leakage at door connection. Urinal shall not show signs of leakage and shall operate as intended.



7. MARKINGS

- 7.1** The fixture shall be permanently and legibly marked with the following information:
- (a) Manufacturer's name or trademark
 - (b) Model number or designation
- 7.2** The carton and instructions shall be marked with the following information:
- (a) Manufacturer's name or trademark
 - (b) Model number or designation

Adopted: July 2010

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