

# ASPE/IAPMO/ANSI Z1034-2015

## Test Method for Evaluating Roof Drain Performance



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# Preface

This is the first edition of ASPE/IAPMO Z1034, *Test Method for Evaluating Roof Drain Performance*.

This Standard was developed by the ASPE/IAPMO Z1034 Technical Subcommittee and approved by the ASPE Main Standards Committee and the IAPMO Plumbing Standards Committee in accordance with the *ANSI Essential Requirements: Due process requirements for American National Standards*, the *Procedures for ASPE Design Standards Development*, and the *IAPMO Policies and Procedures for Consensus Development of American National Standards*. This Standard was approved as an American National Standard on January 14, 2015.

## Notes:

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- (2) *This standard was developed in accordance with the IAPMO procedures accredited as meeting the criteria for American National Standards and it is an American National Standard. The IAPMO Standards Committee that approved this Standard was balanced to assure that individuals from competent and concerned interests had an opportunity to participate. During its development, this Standard was made available for public review, thus providing an opportunity for additional input from industry, academia, regulatory agencies, and the public at large.*
- (3) *This Standard was developed by consensus, which is defined as substantial agreement; consensus implies much more than a simple majority, but not necessarily unanimity. It is consistent with this definition that a member of the relevant IAPMO Standards Committee can be included in the committee roster and yet not be in full agreement with all sections of this Standard.*
- (4) *Although the intended primary application of this Standard is stated in its scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
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  - (a) *standard designation (number);*
  - (b) *relevant section, table, or figure number, as applicable;*
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# *ASPE/IAPMO Z1034-2015*

## ***Test Method for Evaluating Roof Drain Performance***

### **1 Scope**

#### **1.1**

This Standard specifies a test method to determine roof drain systems performance by measuring flow rates based on the water head and the piping configurations specified in this Standard, for drains in sizes NPS-2 to NPS-6.

#### **1.2**

In this Standard,

- (a) “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy to comply with the standard;
- (b) “should” is used to express a recommendation, but not a requirement;
- (c) “may” is used to express an option or something permissible within the scope of the standard; and
- (d) “can” is used to express a possibility or a capability.

Notes accompanying sections of the Standard do not specify requirements or alternative requirements; the purpose of notes is to separate explanatory or informative material from the text. Notes to tables and figures are considered part of the table or figure and can be written as requirements.

#### **1.3**

SI units are the primary units of record in global commerce. In this Standard, the inch/pound units are shown in parentheses. The values stated in each measurement system are equivalent in application, but each unit system is to be used independently. Combining values from the two measurement systems can result in non-conformance with this Standard. All references to gallons are to U.S. gallons.

### **2 General**

#### **2.1 Test Apparatus**

The test apparatus shall be as illustrated in Figures 1 to 6. In addition:

- (a) The testing box shall be marked with at least six 25 mm (1 in) gradations starting at a height of 25 mm (1 in) above the membrane elevation of the roof drain.
- (b) The level transmitter shall be accurate to  $\pm 2$  mm ( $\pm 0.1$  in).
- (c) The piping shall be Schedule 40 DWV PVC\* pipe capable of being connected directly to the roof drain being tested.
- (d) PVC\* fittings shall be used for joining the pipe sections, as necessary.

*\*ABS piping is acceptable, provided it is used with the corresponding ABS fittings.*