Glass plumbing fixtures
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CSA B45.11-17/IAPMO Z401-2017
July 2017

Title: Glass plumbing fixtures

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Preface

This is the second edition of CSA B45.11/IAPMO Z401, Glass plumbing fixtures. It supersedes the previous edition published in 2011.

This edition include the following changes:

a) a revised thermal shock test; and
b) a revised warpage test procedure to be consistent with other standards.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the CSA Technical Committee on Plumbing Fixtures and the IAPMO Plumbing Standards Committee. The CSA Technical Committee operates under the jurisdiction of the CSA Strategic Steering Committee on Construction and Civil Infrastructure. This Standard has been formally approved by the CSA Technical Committee and the IAPMO Plumbing Standards Committee. This Standard was approved as an American National Standard by the American National Standards Institute on July 18, 2017.

CSA Notes

1) Use of the singular does not exclude the plural (and vice versa) when the sense allows.
2) 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.
3) This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple majority, but not necessarily unanimity”. It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.
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   b) provide an explanation of circumstances surrounding the actual field condition; and
   c) where possible, phrase the request in such a way that a specific “yes” or “no” answer will address the issue.

   Committee interpretations are processed in accordance with the CSA Directives and guidelines governing standardization and are available on the Current Standards Activities page at standardsactivities.csa.ca.

5) This Standard is subject to review within five years from the date of publication. Suggestions for its improvement will be referred to the appropriate committee. To submit a proposal for change, please send the following information to inquiries@csagroup.org and include “Proposal for change” in the subject line:
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   b) relevant clause, table, and/or figure number;
   c) wording of the proposed change; and
   d) rationale for the change.
IAPMO Notes:

1) The use of the singular does not exclude the plural (and vice versa) when the sense allows.

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 IAPMO Plumbing Standards Committee can be included in the Committee list 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.

5) IAPMO Standards are subject to periodic review and suggestions for their improvement will be referred to the IAPMO Plumbing Standards Committee. To submit a proposal for change to this Standard, you may send the following information to the International Association of Plumbing and Mechanical Officials, Attention Standards Department, 5001 East Philadelphia Street, Ontario, California, 91761, and include “Proposal for change” in the subject line:
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   b) relevant section, table, or figure number, as applicable;
   c) wording of the proposed change, tracking the changes between the original and the proposed wording; and
   d) rationale for the change.

6) A request for interpretation should be clear and unambiguous. To submit a request for interpretation of this Standard, you may send the following information to the International Association of Plumbing and Mechanical Officials, Attention Standards Department, 5001 East Philadelphia Street, Ontario, California, 91761, and include “Request for interpretation” in the subject line:
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   b) define the problem, making reference to the specific section and, when appropriate, include an illustrative sketch to explain the question;
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7) Interpretations are processed in accordance with IAPMO’s accredited standards development procedures. IAPMO issues written replies to inquiries concerning interpretation of technical aspects of this Standard.

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12) Attention is drawn to the possibility that some of the elements of this Standard may be the subject of patent rights. IAPMO is not to be held responsible for identifying any or all such patent rights. Users of this Standard are expressly advised that determination of the validity of any such patent rights is entirely their responsibility.
CSA B45.11-17/IAPMO Z401-2017
Glass plumbing fixtures

1 Scope

1.1
This Standard covers lavatories and sinks made of glass and specifies test methods, performance requirements, and marking requirements.

1.2
In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the Standard.

Notes accompanying clauses do not include requirements or alternative requirements; the purpose of a note accompanying a clause is to separate from the text explanatory or informative material.

Notes to tables and figures are considered part of the table or figure and may be written as requirements.

Annexes are designated normative (mandatory) or informative (non-mandatory) to define their application.

1.3
SI units are the units of record in Canada. In this Standard, the inch/pound units are shown in parentheses. The values stated in each measurement system are equivalent in application; however, each 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 US gallons.

For information on the conversion criteria used in this Standard, see Annex A.

2 Reference publications
This Standard refers to the following publications, and where such reference is made, it shall be to the edition listed below, including all amendments published thereto.

CSA Group
C22.2 No. 0.15-15
Adhesive labels

CSA Group/IAPMO (International Association of Plumbing and Mechanical Officials)
CSA B45.5-11/IAPMO Z124-2011
Plastic plumbing fixtures