

Glass plumbing fixtures



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Contents

CSA Technical Committee on Plumbing Fixtures	3
IAPMO Plumbing Standards Committee	8
CSA/IAPMO Harmonization Task Group on Plumbing Fixtures	11
Preface	12
1 Scope	15
2 Reference publications	15
3 Definitions	16
4 General requirements	16
4.1 Waste fitting openings, drainage, and overflows	16
4.1.1 Waste fitting openings and drainage	16
4.1.2 Overflows	16
4.2 Openings and mounting surfaces for supply fittings	17
4.3 Supporting structures	17
5 Test methods and performance requirements	17
5.1 General	17
5.1.1 Preconditioning	17
5.1.2 Installation for testing	17
5.2 Warpage test	17
5.2.1 Procedure	17
5.2.2 Performance	18
5.3 Surface examination test	18
5.3.1 Procedure	18
5.3.2 Performance	18
5.4 Subsurface test	18
5.4.1 Procedure	18
5.4.2 Performance	18
5.5 Structural integrity test	18
5.5.1 Apparatus	18
5.5.2 Procedure	19
5.5.3 Performance	19
5.5.4 Surface examination	19
5.6 Front impact load test	19
5.6.1 Procedure	19
5.6.2 Performance	20
5.7 Thermal shock resistance test	20
5.7.1 Procedure	20
5.7.2 Performance	20
5.8 Lavatories and sinks with integral countertops	20
5.9 Kitchen sinks	20

6 Markings 20

6.1 General 20

6.2 Packaging 20

6.3 Installation instructions 21

Annex A (informative) — Unit conversion and rounding criteria 25

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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.

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 - c) *wording of the proposed change; and*
 - d) *rationale for the change.*

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- 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.*
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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

ASME (The American Society of Mechanical Engineers)/CSA Group

ASME A112.18.1-2012/CSA B125.1-12

Plumbing supply fittings

ASME A112.18.2-2015/CSA B125.2-15

Plumbing waste fittings

ASME A112.19.2-2013/CSA B45.1-13

*Ceramic plumbing fixtures***UL (Underwriters Laboratories Inc.)**

969 (1995)

Standard for Marking and Labeling Systems

3 Definitions

The definitions in ASME A112.19.2/CSA B45.1 shall apply in this Standard.

4 General requirements

4.1 Waste fitting openings, drainage, and overflows

4.1.1 Waste fitting openings and drainage

4.1.1.1

Glass fixtures shall

- a) have a waste fitting opening (outlet), the centre of which shall be located at the lowest point of the fixture; and
- b) drain to the waste outlet.

4.1.1.2

Except when proprietary waste fittings (i.e., non-standard) are provided by the manufacturer, the dimensions of waste outlets shall be as shown in Figure 1.

4.1.1.3

Factory-supplied waste fittings shall comply with ASME A112.18.2/CSA B125.2.

4.1.2 Overflows

4.1.2.1 Provision and positioning

Overflows in lavatories and sinks may be provided at the option of the manufacturer. When overflows are provided,

- a) the manner in which they are positioned shall be at the option of the manufacturer; and
- b) they shall comply with ASME A112.19.2/CSA B45.1.