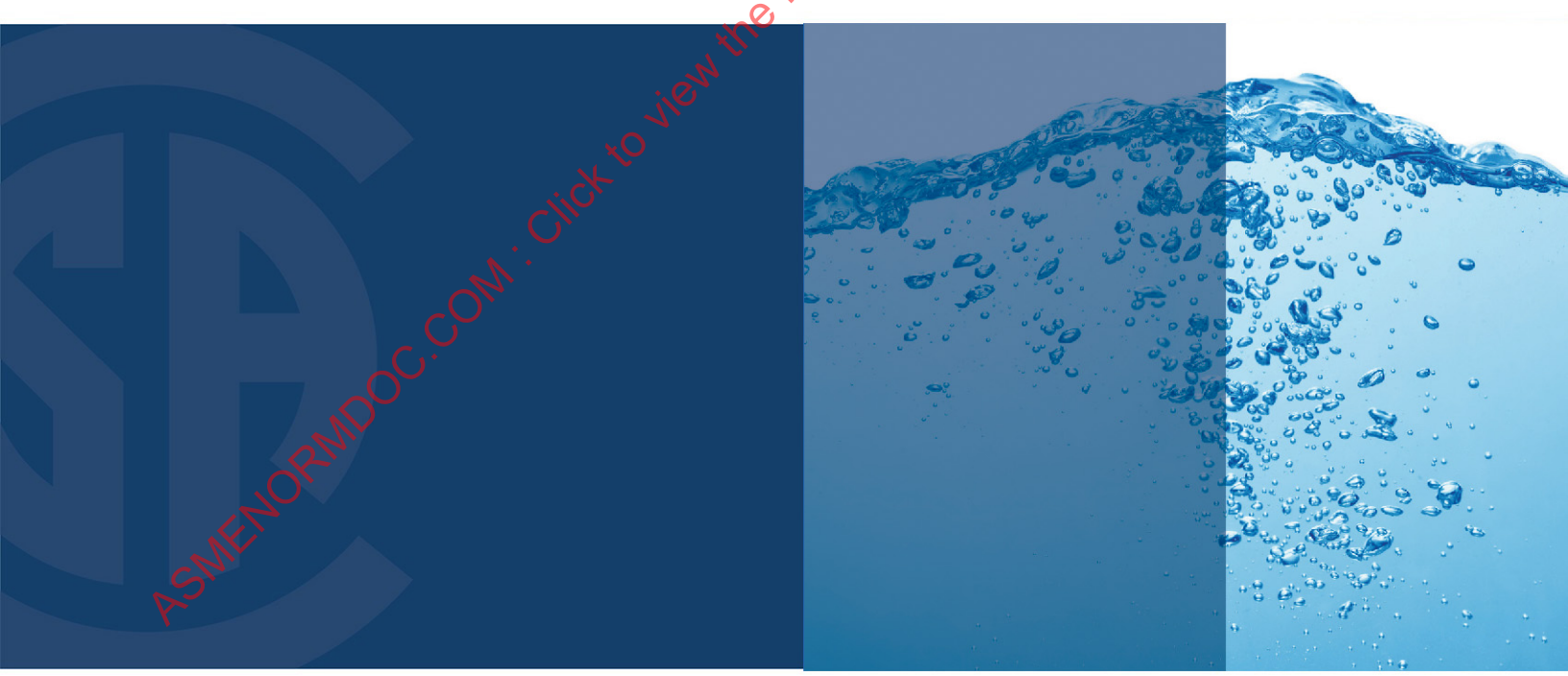
ASME A112.6.7-2022/ CSA B79.7:22

National Standard of Canada
American National Standard

Sanitary floor sinks



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Title: *Sanitary floor sinks*

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Sanitary floor sinks

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Preface

This is the first edition of ASME A112.6.7/CSA B79.7, *Sanitary floor sinks*. It supersedes CSA B79, published in 2008, *Commercial and residential drains and cleanouts*, and the ASME A112.6.7, Sanitary floor sinks Standards.

This Standard was prepared by the ASME/CSA Harmonization Task Group on Drains under the jurisdiction of the ASME A112 Standards Committee on Plumbing Materials and Equipment and the CSA Technical Committee on Drains and Interceptors. The ASME A112 Standards Committee operates under the jurisdiction of the ASME Board on Standardization and Testing and the CSA Technical Committee operates under the jurisdiction of the CSA Strategic Steering Committee on Construction and Civil Infrastructure.

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

This Standard was approved as an American National Standard by the American National Standards Institute on May 17, 2022.

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ASME A112.6.7-2022/CSA B79.7:22
Sanitary floor sinks

1 Scope

1.1 Inclusions

This Standard covers sanitary floor sinks and specifies requirements for materials, construction, inspection, testing, and marking.

Note: *In this Standard, sanitary floor sinks are generally referred to as "floor sinks".*

1.2 Exclusions

This Standard does not include floor drains covered in ASME A112.6.3/CSA B79.3.

1.3 Terminology

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.

1.4 Units of measure

The values given in either SI (metric) or U.S. Customary units of measure are equivalent in application; however, each measurement system is to be used independently of the other. In this Standard, U.S. Customary units are shown in parentheses. Combining values from the two measurement systems can result in non-conformance with this Standard.

1.5 Alternatives

The requirements of this Standard are not intended to prevent the use of alternative designs, materials, or methods of construction, provided such alternatives meet the intent and requirements of this Standard.

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.

ASME (American Society of Mechanical Engineers)/CSA Group
A112.6.3-2022/CSA B79.3:22
Floor drains

A112.18.1-2018/CSA B125.1-18
Plumbing supply fittings

A112.18.2-2020/CSA B125.2:20
Plumbing waste fittings

A112.19.1-2018/CSA B45.2-18
Enamelled cast iron and enamelled steel plumbing fixtures

A112.19.3-2017/CSA B45.4-17
Stainless steel plumbing fixtures

CSA Group
C22.2 No. 0.15-15 (R2020)
Adhesive labels

CSA Group/IAPMO (International Association of Plumbing and Mechanical Officials)
CSA B45.5-17/IAPMO Z124-2017
Plastic plumbing fixtures

ASTM International (American Society for Testing and Materials)
D522/D522M-17
Standard test methods for mandrel bend test of attached organic coatings

D523-14(2018)
Standard test method for specular gloss

D1784-20
Standard classification system and basis for specification for rigid poly(vinyl chloride) (PVC) compounds and chlorinated poly (vinyl chloride) (CPVC) compounds

UL (Underwriters' Laboratories)
969, edition 5
Standard for marking and labelling systems

3 Definitions and abbreviations

3.1 Definitions

The following definitions shall apply in this Standard:

Floor sink — a receptor drain that is designed and installed for the purpose of draining indirect waste to a sanitary drainage system.

Strainer — a device designed to prevent debris from entering a drainage system.

Visible after installation — a surface that remains visible, not necessarily from a normal standing position, after the fixture is installed and may include the removal of items such as grates or covers.

Visible surface — a surface of a fixture that is readily visible to an observer in a normal standing position after the fixture is installed.

3.2 Abbreviations

The following abbreviations shall apply in this Standard:

CPVC — chlorinated polyvinylchloride

PVC — polyvinylchloride

4 General requirements

4.1 Materials

4.1.1 Enamelled and epoxy-coated cast iron floor sink

Enamelled and epoxy-coated cast iron floor sinks shall comply with the applicable requirements specified in ASME A112.19.1/CSA B45.2, Clause 4.1.

4.1.2 PVC floor sinks

4.1.2.1 Requirements

PVC floor sinks shall

a) be made of a single PVC virgin compound, with the exception specified in Clause 4.1.2.2;
b) be made of PVC compound with cell classification 12454 as specified in ASTM D1784; and
c) comply with the surface examination and subsurface tests specified in Clauses 5.4 and 5.5 of CSA B45.5/IAPMO Z124.

4.1.2.2 Reworked PVC

Clean, reworked PVC generated from the manufacturer's own products made with PVC 12454 may be used, provided the floor sinks produced meet the requirements of this Standard.

4.1.3 Stainless steel floor sinks

Stainless steel floor sinks shall

a) comply with the applicable requirements specified in Clause 4 of ASME A112.19.3/CSA B45.4; and
b) have their visible surfaces examined for blemishes in accordance with Clause 5.1 of ASME A112.19.3/CSA B45.4.

4.2 Epoxy coatings

4.2.1 Application

Surfaces visible after installation shall be coated with acid-resisting epoxy, thoroughly fused to the cast iron base.

4.2.2 Requirements

The epoxy coating shall

a) be free from flaws that could affect the appearance or serviceability of the floor sinks;
b) comply with the requirements specified in Clause 4.1.2 in ASME A112.19.1/CSA B45.2;
c) be acid resistant when tested in accordance with Clause 7.3; and
d) flexible when tested in accordance with Clause 7.4.

4.2.3 Epoxy characteristics

The epoxy that is visible after installation shall be glossy and shall have a not less than 60° specular gloss when tested in accordance with Clause 7.2.

4.2.4 Epoxy thickness

The thickness of epoxy coating, measured on a flat surface at least 25 mm (1 in) from any edge, shall be not less than 0.1 mm (0.004 in).

4.3 Detail requirements

4.3.1 Floor sink drain body

The drain body shall be smooth and have rounded corners.

4.3.2 Strainers and grates

Strainers and grates shall be accessible and removable for cleaning and maintenance.

4.3.3 Open area

Grates shall comply with the open area requirements of ASME A112.6.3/CSA B79.3.

4.3.4 Screws

All screws shall be made of corrosion resistant material.

4.3.5 Top loading rating

Grates intended to be rated for top loading, shall be rated in accordance with ASME A112.6.3/CSA B79.3. Grates classified as “no load” (i.e., not intended for any loading or intended for non-traffic areas only) shall not be required to be tested for top loading.

4.4 Plumbing fittings

4.4.1 Supply fittings

Factory-supplied supply fittings shall comply with ASME A112.18.1/CSA B125.1.

4.4.2 Waste fittings

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

5 Floor sink types and sizes

5.1 Illustrations

The floor sink types and sizes illustrated in Figures 1 through 6 are commonly made of cast iron or PVC, but other type materials may be used. Figures 1 through 6 illustrate typical floor sinks and are not intended to restrict design or to specify requirements.

5.2 Weep holes

Weep holes may be provided at the option of the manufacturer.

6 Outlet size and connection

Outlet size and connections shall be in accordance with the applicable outlet connection section of ASME A112.6.3/CSA B79.3.

7 Test requirements

7.1 Enamelled cast iron floor sinks

Enamelled cast iron floor sinks shall comply with the applicable requirements in ASME A112.19.1/CSA B45.2.

7.2 Specular gloss of the epoxy coating

The specular gloss of the epoxy shall be determined in accordance with ASTM D523 for 60°.

7.3 Acid test for epoxy coatings

The acid test for epoxy coatings shall be conducted as follows:

a) Prepare a fresh solution of one-part citric acid crystals to ten parts water, measured by weight. Store the solution for not less than 3 h immediately preceding the test at 27 °C ± 5 °C (80 °F ± 10 °F).
b) Condition the floor sink test specimen for not less than 3 h immediately preceding the test at 27 °C ± 5 °C (80 °F ± 10 °F).
c) Apply the citric acid solution to a clean area of the test specimen, in a pool of several drops, and cover it with a watch glass to hold the solution in place.
d) Allow the acid solution to remain on the test specimen for 15 min at 27 °C ± 5 °C (80 °F ± 10 °F).
e) At the end of the 15 min period, wash and dry the test specimen.
f) Examine the test specimen for loss of epoxy.

7.4 Epoxy flexibility test

The flexibility of the epoxy shall be determined in accordance with ASTM D522, bending it at 180° around a 6.4 mm (0.25 in) mandrel.

7.5 PVC floor sinks

PVC floor sinks and related components intended for exposure to outside elements shall comply with the requirements of the Weathering Test specified in Clause 7 of ASME A112.6.3/CSA B79.3.