

ASME A112.6.3-2016

[Revision of ASME A112.6.3-2001 (R2007)]

Floor and Trench Drains

AN AMERICAN NATIONAL STANDARD



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Mechanical Engineers**

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Two Park Avenue • New York, NY • 10016 USA

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FOREWORD

The American National Standards Committee A112 was established on July 27, 1955 for the purpose of standardizing plumbing materials and equipment. Its first organizational meeting was held on July 22, 1958, and Panel No. 21 was created on May 1, 1964 to establish standards for roof drains, floor drains, backwater valves, and other drainage specialties. Its scope was the recommendation of suitable existing standards in cooperation with interested sponsors or the development of adequate new standards as needed for roof drains, floor drains, and other drains as used or installed in plumbing systems. The Committee has since been reorganized as an ASME Standards Committee.

The ASME A112 Committee was restructured in 1998 in accordance with the ASME Redesign Process, and Panel 21 Working Group 1 became Project Team 6.3. The Project Team met twice to update this Standard, which now includes criteria from the International Association of Plumbing and Mechanical Officials (IAPMO), PS 4 and PS 16.

This Standard was approved as an American National Standard on January 26, 2016.

ASME A112 COMMITTEE

Standardization of Plumbing Materials and Equipment

(The following is the roster of the Committee at the time of approval of this Standard.)

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General. ASME Standards are developed and maintained with the intent to represent the consensus of concerned interests. As such, users of this Standard may interact with the Committee by requesting interpretations, proposing revisions or a Case, and attending Committee meetings. Correspondence should be addressed to:

Secretary, A112 Standards Committee
The American Society of Mechanical Engineers
Two Park Avenue
New York, NY 10016-5990
<http://go.asme.org/Inquiry>

Proposing Revisions. Revisions are made periodically to the Standard to incorporate changes that appear necessary or desirable, as demonstrated by the experience gained from the application of the Standard. Approved revisions will be published periodically.

The Committee welcomes proposals for revisions to this Standard. Such proposals should be as specific as possible, citing the paragraph number(s), the proposed wording, and a detailed description of the reasons for the proposal, including any pertinent documentation.

Proposing a Case. Cases may be issued for the purpose of providing alternative rules when justified, to permit early implementation of an approved revision when the need is urgent, or to provide rules not covered by existing provisions. Cases are effective immediately upon ASME approval and shall be posted on the ASME Committee Web page.

Requests for Cases shall provide a Statement of Need and Background Information. The request should identify the Standard and the paragraph, figure, or table number(s), and be written as a Question and Reply in the same format as existing Cases. Requests for Cases should also indicate the applicable edition(s) of the Standard to which the proposed Case applies.

Interpretations. Upon request, the A112 Standards Committee will render an interpretation of any requirement of the Standard. Interpretations can only be rendered in response to a written request sent to the Secretary of the A112 Standards Committee at go.asme.org/Inquiry.

The request for an interpretation should be clear and unambiguous. It is further recommended that the inquirer submit his/her request in the following format:

Subject:	Cite the applicable paragraph number(s) and the topic of the inquiry.
Edition:	Cite the applicable edition of the Standard for which the interpretation is being requested.
Question:	Phrase the question as a request for an interpretation of a specific requirement suitable for general understanding and use, not as a request for an approval of a proprietary design or situation. The inquirer may also include any plans or drawings that are necessary to explain the question; however, they should not contain proprietary names or information.

Requests that are not in this format may be rewritten in the appropriate format by the Committee prior to being answered, which may inadvertently change the intent of the original request.

ASME procedures provide for reconsideration of any interpretation when or if additional information that might affect an interpretation is available. Further, persons aggrieved by an interpretation may appeal to the cognizant ASME Committee or Subcommittee. ASME does not “approve,” “certify,” “rate,” or “endorse” any item, construction, proprietary device, or activity.

Attending Committee Meetings. The A112 Standards Committee regularly holds meetings and/or telephone conferences that are open to the public. Persons wishing to attend any meeting and/or telephone conference should contact the Secretary of the A112 Standards Committee. Future Committee meeting dates and locations can be found on the Committee Page at go.asme.org/A112committee.

FLOOR AND TRENCH DRAINS

1 GENERAL

1.1 Scope

This Standard covers floor, area, adjustable floor, and trench drains that are used inside of, or outside and immediately adjacent to, building structures. This Standard specifies design requirements, definitions, nomenclature, outlet types and connections, grate-free areas, top-loading classifications, materials, and finishes. Seam-welded, socket-type, stainless steel fabricated drains are covered in ASME A112.3.1.

1.2 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.

1.3 Units of Measurement

The values stated in either SI (metric) or U.S. Customary (yard/pound) units of measure are equivalent in application; however, each 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 systems can result in nonconformance with the Standard.

1.4 Illustrations

The illustrations included in this Standard are intended only to describe and portray typical drains and are not intended to restrict design or to specify requirements.

1.5 Reference Standards

This Standard refers to the following publications, and where such reference is made, it shall be to the current edition of the publication, including all amendments published thereto:

ASME A112.3.1, Stainless Steel Drainage Systems for Sanitary DWV, Storm, and Vacuum Applications, Above- and Below-Ground

ASME A112.18.1/CSA B125.1, Plumbing Supply Fittings

ASME B16.25, Buttwelding Ends

Publisher: The American Society of Mechanical Engineers (ASME), Two Park Avenue, New York, NY 10016-5990 (www.asme.org)

ASTM A48, Standard Specification for Gray Iron Castings

ASTM A74, Standard Specification for Cast Iron Soil Pipe and Fittings

ASTM A307, Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength

ASTM A536, Standard Specification for Ductile Iron Castings

ASTM A563, Standard Specification for Carbon and Alloy Steel Nuts

ASTM A888, Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications

ASTM B584, Standard Specification for Copper Alloy Sand Castings for General Applications

ASTM C564, Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings

ASTM C1440, Standard Specification for Thermoplastic Elastomeric (TPE) Gasket Materials for Drain, Waste, and Vent (DWV), Sewer, Sanitary and Storm Plumbing Systems

ASTM D1784, Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds

ASTM D2661, Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings

ASTM D2665, Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings

ASTM D3350, Standard Specification for Polyethylene Plastics Pipe and Fittings Materials

ASTM D3965, Standard Classification System and Basis for Specifications for Rigid Acrylonitrile-Butadiene-Styrene (ABS) Materials for Pipe and Fittings

ASTM D4101, Standard Specification for Polypropylene Injection and Extrusion Materials

ASTM D4329, Standard Practice for Fluorescent Ultraviolet (UV) Lamp Apparatus Exposure of Plastics

ASTM G152, Standard Practice for Operating Open Flame Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials

ASTM G153, Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials

Publisher: ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 (www.astm.org)