



TO: Joint Committee on Recreational Water Facilities
FROM: Mr. Tom Vyles, Chairperson
DATE: September 30, 2022
SUBJECT: Proposed revision to NSF/ANSI/CAN 50: *Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities* (50i196r1)

Revision 1 of NSF/ANSI/CAN 50 issue 196 is being forwarded to the Joint Committee for consideration. Please review the proposal and **submit your ballot by October 21, 2022** via the NSF Online Workspace <www.standards.nsf.org>.

Please review all ballot materials. When adding comments, please include the section number applicable to your comment and add all comments under one comment number whenever possible. If you need additional space, please use the attached blank comment template in the reference documents and upload online via the browse function.

Purpose

This ballot will update normative references and make revisions to Section 5.

Background

The issue proponent suggests to normative references and equipment standards in section 5, while also harmonizing language and including FRP pool shells.

This issue paper was presented at the 2022 Joint Committee on Recreational Water Facilities annual meeting, and a motion to send language to ballot was approved there.

If you have any questions about the technical content of the ballot, you may contact me in care of:

Mr. Tom Vyles, Chairperson
Joint Committee on Recreational Water Facilities
c/o Jason Snider
Joint Committee Secretariat
Tel: (734) 418-6660
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[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by **grey highlighting**. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI/CAN Standard For Recreational Wastewater –

Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and other Recreational Water Facilities

Evaluation criteria for materials, components, products, equipment, and systems for use at recreational water facilities

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2 Normative references

The following documents contain provisions that, through reference in this text, constitute provisions of this standard. At the time of publication, the indicated editions were valid. All standards are subject to revision and parties are encouraged to investigate the possibility of applying the recent editions of the standards indicated below. The most recent published edition of the document shall be used for undated references.

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IAPMO/ANSI Z124.7-2013 (R2018), *Prefabricated Plastic Spa Shells*¹⁵

IAPMO/ANSI Z124.1.2-2005, *Plastic Bathtub and Shower Units*^{Error! Bookmark not defined.}

IAPMO Z124.8-2013e2 (R2018), *Plastic Liners*¹⁵

~~IAPMO/ANSI Z1033-2013c, *Flexible PVC Hose for Pools, Hot Tubs, Spa, and Jetted Bathtubs*^{Error! Bookmark not defined.}~~

IAPMO/ANSI Z1033-2015 (R2020), *Flexible PVC Hoses and Tubing for Pools, Hot Tubs, Spas, and Jetted Bathtubs*^{Error! Bookmark not defined.}

IAPMO SPS 4-2019, *Special Use Suction Fittings for Swimming Pools, Spas and Hot Tubs (for Suction Side Automatic Swimming Pool Cleaners)*¹⁵

IAPMO IGC 158-2019, *Fiberglass Reinforced Plastic Pool Shells*¹⁵

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5 Design and construction

This section contains general requirements that apply to all equipment covered under the scope of this standard.

5.1 Installation of piping, valves, and fittings

If circulation system components are not supplied with the required piping, valves, and fittings installed, the manufacturer shall provide a piping diagram, a parts list, and installation procedures.

5.2 Assembly

Piping assemblies shall be capable of being disassembled for maintenance and repair.

5.3 Closing and sealing devices

Mechanical clamps, gaskets, and sealing devices shall not leak when subjected to the applicable pressure requirements.

5.4 Suction fittings

Suction fittings that are designed to be totally submerged for use in swimming pools and spa / hot tubs shall comply with ANSI/APSP/ICC-16^{Error! Bookmark not defined.} and the requirements of Section 4 of this standard.

5.5 PVC hose

Helix or fabric reinforced flexible PVC hose, for use on circulation piping in pools, hot tubs, spas, and jetted bathtub units, shall comply with the following:

- IAPMO/ANSI Z1033,^{Error! Bookmark not defined.}
- the requirements of Section 4 of this standard; and
- Section N-2.1.5 after a 20,000-cycle strength test conducted in accordance with Section N-2.1.4.

5.6 Safety vacuum release systems (SVRS)

Manufactured SVRS shall comply with ASTM F2387^{Error! Bookmark not defined.} or ANSI/ASME A112.19.17^{Error! Bookmark not defined.} and the material requirements of Section 4 of this standard.

5.7 Pool and spa covers

All pool or spa covers (safety or otherwise) shall be labeled in accordance with ASTM F1346^{Error! Bookmark not defined.} and shall conform to the requirements of Sections 4 and 5 of this standard.

5.8 Pool alarms

Pool alarms shall comply with ASTM F2208,^{Error! Bookmark not defined.} as well as the requirements of Section 4 of this standard.

5.9 Barriers and fencing

Fencing for use as a barrier around recreational water shall comply with one or more of the following standards:

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- ASTM F1908; Error! Bookmark not defined.
- ASTM F2049; Error! Bookmark not defined.
- ASTM F2286; Error! Bookmark not defined.
- ASTM F2409; Error! Bookmark not defined. Or
- ASTM F2699. Error! Bookmark not defined.

NOTE — Check with the local authorities for residential and recreational water facility fencing requirements. The use of specific products, designs, installation requirements, and compliance with particular standards may be specified in local building codes or by the local public health official.

5.10 Vacuum port fitting cover

Vacuum port cover fittings shall comply with the requirements of IAPMO SPS 4 Error! Bookmark not defined. as well as the requirements of Section 4 of this standard.

5.11 Fiberglass reinforced plastic pool shells

Fiberglass reinforced plastic pool shells shall comply with the requirements of IAPMO IGC 158 as well as the requirements of Section 4 of this standard.

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