



Report Number: 2193
Originally Issued: 07/2013
Valid Through: 07/2014

DIVISION: 13 00 00 – SPECIAL CONSTRUCTION
Section: 13 17 00 – Tubs and Pools

Report Holder:
RIO PLASTICS, Inc.
POST OFFICE BOX 3707
BROWNSVILLE, TEXAS 78523
www.rioswimspas.com
info@rioswimspas.com

EVALUATION SUBJECT:

AQUASWIM-N-SPA PREFABRICATED PLASTIC SWIMSPA SHELLS

1.0 EVALUATION SUBJECT:

1.1 Compliance with the following code:

- 2012 *International Building Code*® (IBC)
- 2009 *International Building Code*® (IBC)
- 2006 *International Building Code*® (IBC)
- 2012 *International Residential Code*® (IRC)
- 2009 *International Residential Code*® (IRC)
- 2006 *International Residential Code*® (IRC)
- 1997 *Uniform Building Code*™ (UBC)

1.2 Evaluated in accordance with

- ICC-ES AC 274, approved December 2006 (Editorially revised July 2011)

1.3 Properties Evaluated

- Physical
- Durability

2.0 USES

AquaSwim-N-Spa Prefabricated SwimSpa shells recognized in this report are used for recreational purposes using heated water that is circulated in a closed system. The shells comply with requirements in IRC Section AG104. SwimSpas are installed either above or below-ground permanently. AquaSwim-N-Spa shells complies with the American National Standards Institute (ANSI) Z124.7, 1997 edition, which is referenced in IRC Section AG104.1 through a reference in ANSI/NSPI-3, 1999 edition.

3.0 DESCRIPTION

SwimSpa shell details are described in Table 1 by model number. Each unit is formed from thermoplastic polymer material, which is overlaid with two or three layers of fiberglass-reinforced resin. SwimSpa shells have a minimum thickness of ¼ inch (6.4 mm), depending on the SwimSpa designs and locations in the SwimSpa.

4.0 INSTALLATION

SwimSpa shells are installed either above or below ground level permanently, as described in this report. All necessary plumbing and electrical work shall comply with local codes in effect. SwimSpas shall be installed in accordance with this report and the manufacturer's installation instructions. All SwimSpas shall be installed on a 3 to 4 inch (76 to 102 mm) concrete slab, and shall extend a minimum of 6 inches (152 mm) beyond the perimeter of the SwimSpa shell. The minimum compressive strength of the concrete shall comply with IRC Section R402.2 or UBC Section 1922.2.4. Preservatively treated wood posts shall be installed in accordance with the manufacturer's installation instructions for installations above-ground or partially above-ground.

Subject to the code official's approval, SwimSpa shells may be installed below grade without a soil investigation by a registered design professional, provided that none of the following conditions exist at the site:

- Groundwater in the excavation, where the SwimSpa will contact the soil at the time of installation.
- Uncompacted fill in contact with any portion of the SwimSpa shell.
- Expansive soils.
- Soil types with an angle of repose that will not support the excavated walls at desired slopes.
- Adjacent structures which may be in danger due to the excavation for the SwimSpa.

If any of the above-mentioned conditions are encountered, excavation shall cease immediately. The conditions shall be investigated by a qualified registered design professional and mitigation measures recommended, if possible. The registered design professional's investigation report and recommendations will be submitted to the code official

Report Number: 2193
Originally Issued: 07/2013
Valid Through: 07/2014

for review and approval if acceptable prior to resuming excavation.

Any provided details or recommendations in the manufacturer's installation instructions for installation of SwimSpa shells in expansive, clay or adobe soils apply only when reviewed and approved by a registered design professional and approved by the local code official.

5.0 CONDITIONS OF USE

AquaSwim-N-Spa Prefabricated Plastic SwimSpa shells described in this report comply with, or are suitable alternatives to what is specified in those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Aquaswim-N-Spa Prefabricated Plastic SwimSpa shells shall be constructed and installed in accordance with this report and the manufacturer's installation instructions. In the event of conflict, the more restrictive shall take precedence.

5.2 Clearances of SwimSpas shells from slopes as set forth in the 2012 IBC Section 1808.7.3, 2009 and 2006 IBC Section 1805.3.3, IRC Section R403.1.7 and UBC Section 1806.5.4, as applicable, must be observed.

5.3 Electrical, plumbing, pumping and water heating equipment and decking are beyond the scope of this report and shall be installed in accordance with the applicable code and the requirements of the code official.

5.4 SwimSpa shells having a maximum water depth, which is measured from the waterline, higher than 4 feet (1219 mm) shall be approved by the building official (ANSI/NSPI-3, 1999 edition, Section 5.2).

5.5 Barriers shall comply with IRC Section AG105 or UBC Appendix Chapter 4, Division I in jurisdictions adopting the IRC and UBC, respectively.

5.6 Suction outlets shall be designed and installed in accordance with Section 3109.5 of the IBC or Section AG106.1 of the IRC.

5.7 Slip resistance is outside the scope of this report. Reports of slip resistance tests that demonstrate compliance with Sections 5.4.1, 5.6.3.2 and 5.6.4.4 of ANSI/NSPI-3 shall be submitted to the code official for approval.

5.8 A permanent label shall be applied to the pool equipment stating the following: "The pool shall remain full of water at all times. Pool may be damaged if water level is allowed to drop below the pool inlet. When appreciable drawdown is noticed or if it becomes necessary to drain the pool, Rio Plastics must be contacted for instructions.

5.9 Pools located in flood hazard areas established in accordance with Table R301.2 (1) of the IRC must comply with Sections AG101.2 and AG103.3 of the IRC.

5.10 AquaSwim-N-Spa Prefabricated units are fabricated by Rio Plastics, Inc. at their manufacturing facility located in Brownsville, Texas, under an approved quality control program with inspections performed by Smith-Emery Laboratories (AA-554).

6.0 EVIDENCE SUBMITTED

The following data has been submitted as follows and is in accordance with:

- ICC-ES Acceptance Criteria for In-Ground, Residential, Fiber-Reinforced Plastic Swimming Pools and Permanently Installed Plastic Spas (AC274), approved December 2006 (Editorially revised July 2011).

7.0 IDENTIFICATION

The AquaSwim-N-Spa Prefabricated Plastic SwimSpa shells shall be identified as follows:

7.1 A label shall be affixed on at least one of the following: product, packaging, installation instructions or descriptive literature. A label shall also be placed on the installed spa or equipment by the distributor or installer.

EVALUATION REPORT

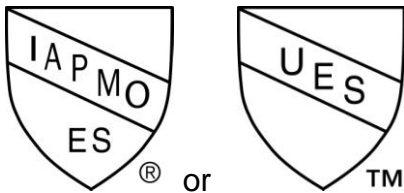


Report Number: 2193

Originally Issued: 07/2013

Valid Through: 07/2014

7.2 The label shall include the company name or trademark, model number, the IAPMO Uniform ES Mark of Conformity and the Evaluation Report Number (ER-2193), and the name of the inspection agency (Smith-Emery Laboratories) to identify the products recognized in this report. A die-stamp label may also substitute for the label. Either Mark of Conformity may be used as shown below:



IAPMO #2193

A handwritten signature in cursive script that reads "Brian Gerber".

Brian Gerber

Technical Director of Uniform Evaluation Service

A handwritten signature in cursive script that reads "Richard Beck".

Richard Beck, PE, CBO, MCP
Director of Uniform Evaluation Service

A handwritten signature in cursive script that reads "Russ Chaney".

GP Russ Chaney
CEO, The IAPMO Group

EVALUATION REPORT



Report Number: 2193
 Originally Issued: 07/2013
 Valid Through: 07/2014

TABLE 1 – MODELS RECOGNIZED IN THIS EVALUATION REPORT¹

MODEL	WEIGHT (pounds)	LENGTH (feet- inches)	WIDTH (feet- inches)	DEPTH (feet- inches)	TOTAL SPA AREA (sq. feet)	TOTAL VOLUME (gallons)
AS'N'S-19	1,000	19-0	7-6	4-0	125	1,800
AS'N'S-16	900	16-0	7-6	4-0	110	1,528
ASJ-SP-14	800	14-0	7-6	4-0	95	1,400
ASJ-SS-14	800	14-0	7-6	4-0	95	1,100
AS-RG-14	700	14-0	7-6	4-0	95	960
AS-9	500	9-0	7-6	3-9	61	800
AS-9L	500	9-0	7-6	3-9	61	800
AS-7.5	425	7-6	7-6	3-9	51	750
AS-14.5	1,160	14-6	7-6	4-6	70	2,100
AS/B-14.5	960	14-6	7-6	4-6	98	2,133
AS-RG-14.5	1,080	14-6	7-6	4-6	98	1,698
AS/S-16.5	1,280	16-6	7-6	4-6	100	1,681
AS/S-19	1,700	19-0	7-6	5-0	107	2,676
APT-9	600	9-0	7-6	4-6	73	1,150
APT-14L	860	14-0	7-6	5-4	95	2,000
APT-14T	970	14-0	7-6	5-4	95	2,022
APT-14	900	14-0	7-6	5-0	95	2,100
APT-19	1,200	19-0	7-6	5-0	135	3,040
APT-14M	970	14-0	7-6	5-4	95	2,095
APT-15	1,020	15-0	7-6	5-0	95	2,100
APT-19.5	1,260	19-6	7-6	5-0	135	3,040
AS-15	1,220	15-0	7-6	4-6	70	2,100
RS-19.5	1,700	19-6	7-6	5-0	107	2,676
OPT-19.5	1,260	19-6	7-6	5-0	135	3,010

For SI: 1 inch = 25.4 mm, 1 foot = 305 mm, 1 pound = 4.45 N, 1 ft² = 0.09 m², 1 gallon = 3.785 L.

¹Based on a minimum shell thickness of ¼ inch.