

ICC-ES Evaluation Report

ESR-2723*

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DIVISION: 13 00 00—SPECIAL CONSTRUCTION**Section: 13 11 00—Swimming Pools****REPORT HOLDER:**

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EVALUATION SUBJECT:**FIBER REINFORCED PLASTIC SWIMMING POOL SHELLS****1.0 EVALUATION SCOPE****Compliance with the following codes:**

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

Properties evaluated:

- Physical properties
- Durability

2.0 USES

The San Juan Products pool shells are permanently installed in-ground and are intended for recreational use as swimming pools in residential applications with water circulated through a filter in a closed system. The pools comply with ANSI/NSPI-5 as Type O or Type I pools.

3.0 DESCRIPTION

The San Juan Products pool shells consist of one-piece fiberglass construction shop-formed over a mold. The pool shell is minimum 1/4-inch-thick (6.4 mm), fiberglass-reinforced plastic (FRP), composed of vinylester resin, fiberglass mat and woven roving. The surface finish is neopentyl glycol/isophthalic gel coat.

The overall dimensions, depths and capacities of recognized models are shown in Table 1.

4.0 INSTALLATION

The swimming pool shells must be permanently installed in-ground in accordance with this report and the manufacturer's published installation instructions. All plumbing and electrical work must comply with the applicable codes in effect at the construction site.

Subject to the code official's approval, the San Juan Products pool shells may be installed without a soil investigation by a registered design professional, provided none of the following conditions is encountered at the site:

- a. The existence of groundwater within the excavation, where the pool floor will contact the soil at the time of installation.
- b. The existence of uncompacted fill in contact with any portion of the pool shell.
- c. The existence of any expansive-type soils.
- d. The existence of any soil types with an angle of repose that will not support the walls of the excavation at desired slopes.
- e. Danger to adjacent structures posed by the proposed pool location.

If any of the above conditions is encountered, excavation must cease immediately. The specified conditions at the site must then be reviewed, and recommendations made by a registered design professional. The code official must approve the registered design professional's recommendations before work is resumed.

Details specifically for installations in expansive, clay, or adobe soils apply only when supported by the registered design professional's recommendations and approved by the code official.

The pool excavation profile must coincide with the contours of the pool. The overexcavation must be minimum of 6 inches (152 mm) on the sides and a minimum of 4 inches (102 mm) at the bottom. The backfill for the pool bottom must consist of a layer of bedding sand formed to match the pool profile. This sand layer must be compacted using a manual tamper and water. The pool shell must sit firmly on the sand and be within 1 inch (25.4 mm) of level. Simultaneous waterfill and backfill operations must then commence. The sand must be compacted with a tamper and water. The installer must ensure that the backfill level and water level are approximately the same throughout the filling procedure.

After completion of the backfill, the bond beam and decking must be installed in accordance with the manufacturer's published installation instructions, and approved by the code official.

5.0 CONDITIONS OF USE

The pool shells described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

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- 5.1 The pool shells must be constructed and installed in accordance with this report and the manufacturer's published installation instructions. In the event of conflict, this report governs.
- 5.2 Electrical and plumbing installations must comply with the adopted codes in effect at the construction site at the time of construction.
- 5.3 Clearances of the pools from slopes set forth in IBC Section 1805.3.3, IRC Section R403.1.7 or UBC Section 1806.5.4 must be observed.
- 5.4 A barrier must be installed in accordance with IBC Section 3109, IRC Section AG105, or UBC Appendix Chapter 4, as applicable.
- 5.5 Slip resistance is outside the scope of this evaluation report. Reports of slip resistance tests that demonstrate compliance with Section 8.1 of ANSI/NSPI-5 must be submitted for approval by the code official.
- 5.6 Diving equipment may only be installed on Type I pools and must meet the requirements of, and be installed in accordance with, Section 5.8 of ANSI/NSPI-5.
- 5.7 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.

- 5.8 Suction outlets must be designed and installed in accordance with IBC Section 3109.5 and IRC Section AG106.1.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for In-ground, Residential, Fiber-reinforced Plastic Swimming Pools and Permanently Installed Plastic Spas (AC274), dated December 2006 (Editorially Revised August 2011).

7.0 IDENTIFICATION

Each pool shell, at the skimmer area, bears a label with the San Juan Products name; manufacturing plant location (Lakeland, Florida, or Eloy, Arizona); serial number for traceability, model number and the evaluation report number (ESR-2723).

A permanent sign, bearing the following statement, must be attached to the pool pumping equipment:

Notice: *The pool must remain full of water at all times. Pool may be damaged if the water level is allowed to drop below the skimmer. When appreciable drawdown is noticed or if it becomes necessary to drain the pool, contact San Juan Products or its dealers for instructions.*

A permanent label must be attached adjacent to the above sign indicating the name, address and telephone number of the San Juan Products distributor.

TABLE 1

MODEL NO.	LENGTH (ft-in)	WIDTH (ft-in)	MAX DEPTH (ft-in)	CAPACITY (gal)	POOL TYPE
850	33' 1"	15' 7"	5' 9"	10400	0
851	33' 1"	15' 7"	8'	11300	0
379	28' 4"	15' 10"	5' 7"	7120	0
220	23' 3"	10' 11"	5" 2"	5100	0
800	33' 9"	16' 0"	5' 8"	12170	0
151	25' 10"	12' 0"	5' 7"	6800	0
176	23' 9"	11" 9"	5' 7"	6600	0
728	17' 4"	13' 8"	5' 2"	4350	0
727	17' 4"	15' 10"	5' 2"	4650	0
729	18' 11"	11' 11"	5' 0"	3300	0
105	17' 2"	11' 11"	5' 0"	3900	0
750	23' 0"	8' 6"	4' 9"	4240	0
540	42' 4"	16' 1"	7' 11"	20500	1
190	30' 0"	14' 0"	6' 0"	7130	0
351	33' 1"	14' 1"	5' 0"	11500	0
700	20' 0"	12' 0"	3' 10"	5600	0
870	29' 0"	12' 10"	6' 0"	10000	0
724	24' 0"	16' 0"	4' 9"	5200	0
725	36' 2"	16' 0"	4' 8"	8800	0
726	27' 10"	14' 1"	5' 0"	9560	0
600	16' 6"	12' 0"	3' 11"	4900	0
P30	23' 5"	11' 11"	4' 9"	6800	0
110	28' 1"	11' 0"	4' 0"	6200	0
P10	23' 9"	12' 3"	5' 11"	6000	0
580	44' 7"	15' 11"	7' 10"	22000	1
578	44' 7"	15' 11"	6' 4"	19000	0
225	32' 10"	13' 9"	5' 10"	10300	0
226	32' 10"	13' 9"	8' 0"	13700	0
300	22' 4"	12' 1"	3' 9"	5025	0

TABLE 1 (Continued)

MODEL NO.	LENGTH (ft-in)	WIDTH (ft-in)	MAX DEPTH (ft-in)	CAPACITY (gal)	POOL TYPE
840	34' 1"	16' 2"	5' 5"	13500	0
222	25' 1"	11' 8"	5' 7"	6940	0
775	40' 0"	8' 6"	4' 9"	8500	0
530	39' 8"	15' 8"	5' 4"	14050	0
576	31' 10"	15' 11"	5' 8"	12000	0
145	34' 4"	12' 4"	5' 6"	8860	0
577	33' 10"	15' 11"	7' 10"	17500	1
550	39' 8"	16' 0"	7' 11"	17950	1
875	39' 11"	16' 2"	5' 5"	14590	0
590	40' 6"	16' 2"	6' 4"	20600	0
575	39' 10"	16' 1"	7' 11"	20500	1
50	21' 10"	10' 5"	4' 11"	4800	0
285	39' 1"	16' 2"	6' 0"	14690	0
900	39' 7"	15' 11"	5' 1"	14400	0
375	29' 8"	13' 10"	5' 5"	9500	0
378	28' 4"	15' 10"	5' 7"	10000	0
400	32' 6"	14' 0"	5' 6"	11500	0
200	31' 0"	12' 0"	5' 5"	9000	0
380	37' 4"	16' 0"	6' 4"	13700	0
377	45' 0"	16' 0"	8' 0"	20000	1
376	45' 0"	16' 0"	6' 4"	18000	0
210	27' 10"	11' 11"	6' 0"	8000	0
140	25' 9"	12' 5"	5' 8"	6600	0
180	23' 9"	11' 9"	5' 7"	6600	0
425	27' 11"	15' 11"	5' 1"	11300	0
520	28' 0"	14' 10"	5' 4"	9500	0
100	26' 9"	12' 2"	5' 6"	8000	0
125	27' 11"	11' 9"	5' 6"	8500	0
135	27' 9"	11' 8"	5' 6"	8400	0
P21	25' 0"	12' 0"	6' 0"	8500	0

For SI: 1 inch = 25.4 mm, 1 foot = 305 mm, 1 gallon = 3.785 L.