

# ICC-ES Report

## ESR-4370

Issued 02/2019

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This report is subject to renewal 02/2020

EVALUATION SUBJECT:

## FIBERGLASS ONE-PIECE SWIMMING POOL SHELLS

**DIVISION:**

13 00 00—SPECIAL CONSTRUCTION

**SECTION:**

13 11 13—BELOW-GRADE SWIMMING POOLS

Report Holder:

**IGUI POOLS**

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# ICC-ES Evaluation Report

**ESR-4370**

Effective Date: February 2019

This report is subject to re-examination in one year

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**DIVISION: 13 00 00—SPECIAL CONSTRUCTION**  
**Section: 13 11 13—Below-Grade Swimming Pools**

**REPORT HOLDER:**

**IGUI POOLS**  
[www.igui.com](http://www.igui.com)

**EVALUATION SUBJECT:**

**FIBERGLASS ONE-PIECE SWIMMING POOL SHELLS**

## 1.0 EVALUATION SCOPE

**Compliance with the following codes:**

- 2018, 2015, and 2012 *International Building Code*® (IBC)
- 2018, 2015, and 2012 *International Residential Code*® (IRC)
- 2018 and 2015 *International Swimming Pool and Spa Code*® (ISPSA)
- 2018, 2015, and 2012 *Uniform Swimming Pool, Spa and Hot Tub Code*® (USPSHC)
- 2016, 2013 and 2010 *California Building Code*® (CBC)
- 2016, 2013 and 2010 *California Residential Code*® (CRC)
- 2017 *Florida Building Code*® (FBC)
- 2017 *Florida Residential Code*® (FRC)

**Compliance with the following standards:**

- APSP/ANSI 4-2012, Standard for Aboveground / Onground Residential Swimming Pools
- APSP/ANSI 5-2011, Standard for Residential Inground Swimming Pools
- AC274, ICC-ES Acceptance Criteria for In-ground, Residential, Fiber-reinforced Plastic Swimming Pools and Permanently Installed Plastic Spas, dated December 2006 (editorially revised July 2017)

## 2.0 USES

The fiberglass 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 APSP/ANSI-5 as Type O pools as noted in Table 1.

## 3.0 DESCRIPTION

### 3.1 iGui Traditional and Mosaic Pools (In-ground only)

The fiberglass pool shells consist of one-piece fiberglass construction shop-formed over a mold using a spray-up system. The material is minimum 1/8-inch-thick (3.175 mm), fiberglass-reinforced plastic (FRP), composed of gel coat-based NPG isophthalic polyester resin and fiberglass roving. The Traditional Pool surface finish is a gel coat and fiberglass roving coat. The Mosaic Pool surface finish is a gel coat with tiles along the rim of pool.

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

**Notice:** The pool shells are designed to remain full of water at all times. The shell may be damaged if the water level is allowed to drop below the skimmer. When appreciable draw-down is noticed or if it becomes necessary to drain the pool, iGui Pools or its dealers should be contacted for instructions.

### 3.2 iGui Unlimited Pools:

The shop-formed pools consist of one-piece fiberglass, steel, expansive polyurethane and polyurethane foam plate construction. The finish of the Unlimited pool will be either porcelain tiles, ceramics, natural stones or similar, never Gel Coat. Models may include a glass partition, tanning area, spa area or infinity edge. The pool is delivered intact, with finish.

In-ground and aboveground models are available in various shapes and sizes but the overall pool size shall remain within the (minimum/maximum) dimensions, depths and capacities as shown in Table 2.

Models intended for installation up to 4 feet (1.2 m) aboveground/onground, have longitudinal sides that supported by internally filled polyurethane plates in the measures of 8 3/4 inches by 9 3/4 inches by 6' -6,7" (0.22cm x 0.25 cm x 2 m) and the plates are locked with polyurethane expandable in intervals of 17 3/4 inches (45 cm). No further support shall be needed.

**Notice:** The aboveground/onground Unlimited Pools models are designed to be placed on a leveled concrete floor and shall will never be installed inside the ground.

## 4 INSTALLATION

The pool shells must be permanently installed in-ground in or, in the case of the models shown in Table 2, up to 5 feet

(1.5 m) above ground in accordance with this report and the manufacturer's published installation instructions. All plumbing and electrical installations must comply with the applicable codes in effect at the construction site.

Subject to the code official's approval, the pool shell may be installed without a soil investigation by a registered design professional, unless any of the following conditions is encountered at the site:

1. The existence of groundwater within the excavation, where the pool floor will contact the soil at the time of installation.
2. The existence of an uncompacted fill in contact with any portion of the pool or spa shell.
3. The existence of any expansive-type soils, unless the pool manufacturer has provided specific instructions regarding expansive soils within their installation instructions.
4. The existence of any soil types with an angle of repose that will not support the walls of the excavation at desired slopes.
5. Danger to adjacent structures posed by the proposed pool location.

If any of the above conditions is encountered, excavation must cease immediately. The site conditions must then be reviewed, and recommendations made, by a registered design professional. The code official must approve the registered design professional's report 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 is approximately 6 to 12 inches (152 to 305 mm) on the sides and ends. The overexcavation at the pool bottom is approximately 4 inches (102 mm). The backfill for the pool is a layer of minimum 3-inch-thick (76 mm) bedding sand matching the pool or spa profile. This sand layer is 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 sand backfill operations then commence. The sand is 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 as approved by the code official.

## 5 CONDITIONS OF USE

The fiberglass pool 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:

- 5.2 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.
- 5.3 Electrical and plumbing installations must comply with the applicable codes in effect at the construction site at the time of construction.

5.4 Clearances of the pools from slopes set forth in IBC Section 1808.7, CBC Section 1808.7, CRC Section R403.1.7 or IRC Section R403.1.7 must be observed.

5.5 A barrier must be installed in accordance with IBC Section 3109, ISPSC Section 305, CRC Section AG105 or IRC Section AG105, as applicable.

5.6 Slip resistance is outside the scope of this evaluation report. Reports of slip resistance tests that demonstrate compliance with Section 8.1 of APSP/ANSI-5 must be submitted for approval by the code official.

5.7 The pools are classified as either:

*Type O pools:* not intended for use with diving boards or other diving equipment; or

5.8 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, Section AG101.2 of the CRC or Section 304 of the ISPSC.

5.9 Suction outlets must be designed and installed in accordance with IBC Section 3109.5, CBC Section 3137B, CRC Section AG106, ISPSC Section 310 and IRC Section AG106.1.

## 6 IDENTIFICATION

6.1 The pool shells are identified adjacent to the skimmer with an imprint that includes the manufacturer's name "iGui", the model designation, a coded serial number and the ICC-ES evaluation report number (ESR-4370).

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

**Notice:** *The pool shell is designed to remain full of water at all times. The shell may be damaged if the water level is allowed to drop below the skimmer. When appreciable draw-down is noticed or if it becomes necessary to drain the pool, contact iGui Pools or its dealers for instructions.*

6.3 A permanent label must be attached adjacent to the above sign indicating the iGui Pools distributor's name, address and telephone number.

6.4 The report holder's contact information is the following:

**IGUI POOLS**  
**CALLE 2. LOTE 17 COL. BRUNO PAGLIAI**  
**VERACRUZ, MEXICO**  
[www.igui.com](http://www.igui.com)

**TABLE 1 – Traditional and Mosaic Models**

MODEL	AREA (square feet)	LENGTH (feet/inches)	WIDTH (feet/inches)	MAX. DEPTH (feet/inches)	CAPACITY (gallons)	POOL TYPE
AMARALINA	240.9	21'-7.8"	10'-2"	4'-7.1"	5415.5	O
ARMACAO	315.27	24'-7.3"	11'-5.8"	4'-7.1"	6974.1	O
ATLANTIDA	121.2	15'-5"	7'-2.6"	4'-7.1"	2536.1	O
BALI	343.69	24'-9.6"	11'-8.2"	4'-7.1"	7713.8	O
BONAIRE*	134.12	15'-5"	7'-2.6"	4'-7.1"	2773.8	O
BORA BORA*	64.37	9'-2.2"	5'-10.9"	2'-11.4"	977.4	O
CANCUN	193.32	18'-8.4"	8'-10.3"	4'-7.1"	4438.1	O
CAPRI	134.12	15'-5"	7'-2.6"	4'-7.1"	2800.2	O
COCOA BEACH	127.23	16'-5"	7'-9"	3'-3"	2562.0	O
COZUMEL	263.28	21'-9.4"	10'-3.6"	4'-7.1"	6313.7	O
DOMINICA*	263.07	21'-7.8"	10'-2"	4'-7.1"	5943.9	O
FAROL DA BARRA	170.18	18'-8.4"	8'-10.3"	4'-7.1"	3856.9	O
HULOPOE	59.09	10'-11.9"	5'-4.6"	2'-7.5"	871.8	O
IMBE	77.61	12'-1.7"	5'-6.9"	3'-11.2"	1294.4	O
ITACARE	374.48	27'-10.6"	12'-3.6"	4'-7.1"	8717.7	O
JURERE	77.18	12'-1.7"	6'-8.7"	1'-7.7"	713.3	O
KAANAPALI	77.18	12'-5.6"	5'-10.9"	3'-3.4"	1268	O
KAPALUA	155.43	22'-1.4"	8'-4"	4'-3.2"	4332.4	O
KE'E	113.67	15'-8.2"	7'-1.8"	3'-11.2"	2351.1	O
MAKALAWENA	298.7	28'-4.2"	10'-3.6"	4'-3.2"	7713.8	O
MALIBU BEACH	167.16	19'-8"	8'-6"	3'-3"	3870.0	O
MARTINICA*	344.01	24'-7.3"	11'-5.8"	4'-7.1"	7793.1	O
NAAMA	58.02	9'-2.2"	5'-3"	2'-7.5"	734.4	O
NASSAU*	129.06	11'-5"	8'-10.3"	3'-3.4"	1452.9	O
ONELOA	228.41	25'-1.6"	8'-8.7"	4'-3.2"	5204.2	O
PANAMA*	85.9	12'-5.6"	5'-10.9"	4'-7.1"	1664.3	O
PLAYA DEL CARMEN*	248.22	21'-9.4"	9'-7.7"	4'-7.1"	4623	O
POIPU	398.16	31'-6"	11'-11.7"	4'-3.2"	9219.6	O
PRAIA BRAVA	461.66	31'-2"	13'-1.5"	4'-7.1"	10831.1	O
SANTA MONICA BEACH	86.13	13'-1"	6'-7"	3'-3"	1431.0	O
TOBAGO*	193.32	18'-8.4"	8'-10.3"	4'-7.1"	4200.3	O
TORTUGA*	123.35	15'-5"	6'-6.7"	4'-7.1"	2192.6	O
TULUM	86	12'-4"	5'-9.3"	3'-11.2"	1505.8	O
WAIKIKI	151.13	18'-10.8"	7'-8.9"	4'-3.2"	3381.4	O

For SI: 1 foot = 304.8 mm, 1 inch = 25.4 mm, 1 gallon = 3.785 liters.

\* Mosaic pool models that include a pre-tiled rim surface

**TABLE 2 – Unlimited Models**

Models are available in various shapes and sizes but overall pool size shall remain within the dimensions (min/max) listed in table.

	LENGTH (feet/inches)	WIDTH (feet/inches)	DEPTH (feet/inches)	CAPACITY (gallons)	POOL TYPE
Minimum (Aboveground)	6'-5"	6'-5"	2'-9"	400.91	O
Maximum (Aboveground)	26'-7"	12'-10"	3'-8"	6377.54	O
Minimum (In-ground)	6'-7"	6'-7"	2'-7"	509.85	O
Maximum (In-ground)	36'-3"	14'-2"	4'-7"	14124.96	O

For SI: 1 foot = 304.8 mm, 1 inch = 25.4 mm, 1 gallon = 3.785 liters.