ICC EVALUATION SERVICE®

ESR-4370

Effective Date: February 2025

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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

EVALUATION SUBJECT:

FIBERGLASS ONE-PIECE SWIMMING POOL SHELLS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024, 2021, 2018, 2015, and 2012 *International Building Code®* (IBC)
- 2024, 2021, 2018, 2015, and 2012 *International Residential Code®* (IRC)
- 2024, 2021, 2018 and 2015 *International Swimming Pool and Spa Code® (ISPSC)*
- 2024, 2021, 2018, 2015, and 2012 *Uniform Swimming Pool, Spa and Hot Tub Code® (USPSHC)*
- 2022, 2019, 2016, 2013 and 2010 *California Building Code® (CBC)*
- 2022, 2019, 2016, 2013 and 2010 *California Residential Code® (CRC)*
- 2023, 2020 and 2017 *Florida Building Code® (FBC)*
- 2023, 2020 and 2017 *Florida Residential Code® (FRC)*

Compliance with the following standards:

- ANSI/APSP/ICC 4-2012 (R2022), Standard for Aboveground / Onground Residential Swimming Pools
- ANSI/APSP/ICC 5-2011 (R2022), 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, 2 and 3.

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 roveing 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, contact iGUi Pools or its dealers for instructions.*

3.2 Practical Pools (Semi Inground / In-ground)

The practical pools are shallow and have a maximum depth of 3'3 and can be installed semi inground or in-ground following the manufacturer manual instructions

The overall dimensions, depths and capacities of recognized models are shown in Table 2.

Notice: *It is a requirement to perform a retaining wall around the pool in case of semi inground installation, in other words, pools that is partially buried under the ground surface (50% in-ground and 50% aboveground).*

3.3 iGUi Unlimited Pools OR iGUi Ceramic Pools

The shop-formed pools consist of one-piece fiberglass, steel, expansive polyurethane and polyurethane foam plate construction, as well as other materials. The finish of the Unlimited pool or iGUi Ceramic Pool will be either porcelain tiles, ceramics tiles, natural stones or similar, never Gel Coat. Models may include an acrylic partition, tanning area, spa area or infinity edge. The pool is delivered intact, with finish and can have different levels with parts in-ground and semi inground.

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 3.

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 ¾ inches by 9 ¾ 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 ¾ 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 and 3, 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.

In Addition to the guidance above, the following options may also be used:

- Compacted earth with a layer of 3 to 5 inches (80mm to 120mm) of washed sand.

- Compacted earth with a layer of 2 to 4 inches (50mm to 100mm) of sand mixed with cement in ratio of 1/10 to 1/15.

- 2 to 4 inches (50mm to 100mm) of a concrete subfloor with a 0.5 to 1 inch (15mm to 30mm of Styrofoam board under the concrete.

- Concrete subfloor from 2 to 4 inches (50mm to 100mm) with a layer of 1 to 2 inches (30mm to 50mm of sand under the concrete.

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.

Note: *other materials for compaction such as "gravel", or similar can be used if the material does not have "tip" that could touch and damage the fiber of the pool.*

After completion of the backfill, the bond beam, concrete subfloor around the pool, 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.

5.10 A retaining wall is required around the pool for any above ground or semi inground installations.

5.11 The iGUi brand is a manufacturer of swimming pools and does not carry out installations. The responsibility for carrying out the installation, as well as obtaining licenses, permits authorizations and equipment installed in the pools are the sole responsibility of the dealers/third parties/pool contractor and their team, as well as the quality of the service.

5.12 Stairs, benches, and pool walls must be fully compacted, as no part of the pool can be exposed

without compacted filling.

5.13 A concrete subfloor must be created around the pool of at least 3 feet, and, mainly, respecting a slope of at least 3% of inclination for every 3 feet outside the pool for the proper water drainage, avoiding infiltrations on the external walls in rainy periods that could damage the compaction and consequently the pool.

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 distributer's name, address and telephone number.

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

IGUI POOLS
FELICIO BOTINO STREET, N. 237
CEDRAL, SAO PAULO, BRAZIL 15895-000
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
ACAPULCO	217,9	23	9	4-7	4148	O
AMARALINA	240.1	23	11-6	4-7	5415.5	O
ARMACAO	315.3	26-3	13-1	4-7	6974.1	O
ARUBA	411,1	27-11	11-6	4-7	9299	O
ATALAIA	386.4	29-6	13-1	4-7	1020.6	O
ATLANTIDA	121.2	16-5	8-2	4-7	2536.1	O
BAHAMAS	172,9	26-3	9-10	4-7	5944	O
BALI	343.7	26-3	13-1	4-7	7713.8	O
BÁVARO	141,8	18-1	7-10	3-3	2874	O
BONAIRE	134.1	16-5	8-2	4-7	2773.8	O
BORA BORA	64.4	9-10	6-7	2-11	977.4	O
BRÍNDICE	306,5	26-3	13-1	4-7	7370	O
CABO SAN LUCAS	461,8	32-10	14-1	4-7	11280	O
CÁLARI	237,8	23	11-6	4-7	5548	O
CANCUN	193.3	19-8	9-10	4-7	4438.1	O
CANNES	386,2	29-6	13-1	4-7	9320	O
CAPRI	134.1	16-5	8-2	4-7	2800.2	O
CASSINO	58.0	9-10	6-7	2-0	597	O
CATALINA	206,5	23	9	4-7	4676	O
COPACABANA	160,7	19-8	8-2	4-7	7767	O
COSTA ESMERALDA	461,7	32-10	14-1	4-7	9457	O
COZUMEL	263.3	23	11-6	4-7	6313.7	O
DOMINICA	263.1	23	11-6	4-7	5943.9	O
FAROL DA BARRA	170.2	19-8	9-10	4-7	3856.9	O
FLORENZA	172,5	19-8	9-10	4-7	3804	O
IMBE	77.6	13-1	6-7	3-11	1294.4	O
IPANEMA	171,2	19-8	8-2	4-7	7397	O
ITACARE	374.5	29-6	13-11	4-7	8717.7	O
JERICOACOARA	248.0	23	10-10	4-7	5072.1	O
MALIBU	150,0	23	9	4-7	2298	O
MARAGOGI	160,8	19-8	8-2	4-7	3580	O
MARTINICA	344.0	26-3	13-1	4-7	7793.1	O

MAUI	257,9	26-3	9-10	4-7	5310	O
MAZARA	135,8	16-5	9-2	4-3	2747	O
MONTE CARLO	258,5	26-3	9-10	4-7	4914	O
MONDELLO	36,3	8-2	5-0	1-0	201	O
NAAMA	58.0	9-10	5-11	2-7	734.4	O
NASSAU	129.0	13-1	9-10	3-3	1452.9	O
NAVAGIO	120,8	16-5	7-4	3-3	2351	O
PANAMA	85.9	13-1	6-7	4-7	1664.3	O
PARADISE	85,8	13-1	6-7	3-3	1400	O
PESCARA	90,7	13-1	7-10	4-3	1664	O
PLAYA DEL CARMEN	248.2	23	10-10	4-7	4623.0	O
PRAIA BRAVA	461.7	32-10	11-6	4-7	10831.1	O
PUNTA CANA	188,1	21-4	8-10	4-7	4332	O
RAVENNA	68,7	11-6	6-7	2-7	925	O
RIVIERA	85,6	13-1	6-7	4-7	1765	O
SANTA MARTA	338,1	29-6	11-6	4-7	6023	O
SAVONA	62,2	10-4	6-7	4-3	1110	O
ST. TROPEZ	233,5	24-7	9-6	4-7	5418	O
SUN BEACH	67,4	11-6	5-11	3-3	1036	O
TOBAGO	193.3	19-8	9-10	4-7	4200.3	O
TORTUGA	123.4	16-5	7-7	4-7	2192.6	O
TULUM	86.0	13-1	6-7	3-11	1505.8	O
VENICE	103,8	14-9	7-1	3-3	1759	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 – Practical Pools (Semi Inground / In-ground)

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

MODEL	AREA (square feet)	LENGTH (feet/inches)	WIDTH (feet/inches)	DEPTH (feet/inches)	CAPACITY (gallons)	POOL TYPE
MALIBU	150.1	19’-8’’	8’-6’	3’-3’’	2430.4	O
COCOA	110.5	16’-5’’	7’-7’’	3’-3’’	1770.0	O
SANTA MONICA	77.2	13’-1’’	6’-7’’	3’-3’’	1188.8	O

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

TABLE 3 – Unlimited Models or Ceramic Pools

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"	4'-7"	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.