



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

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Products: Fiberglass One-Piece Swimming Pool and Spa Shells

Listee: LoneStar Fiberglass Components
7150 IH35 N.
New Braunfels, Texas 78130
www.lonestarfiberglasspools.com

Additional Listee:

LoneStar Pools of TX
7150 IH35 N.
New Braunfels, Texas 78130
www.lonestarfiberglasspools.com

Compliance with the following codes:

2024, 2021, 2018, 2015, 2012 and 2009 *International Building Code*® (IBC)
2021, 2018, 2015, 2012 and 2009 *International Residential Code*® (IRC)
2024, 2021, 2018, 2015 *International Swimming Pool and Spa Code*® (ISPSA)
2023, 2020 and 2017 City of Los Angeles Residential Code
2022, 2019, 2016, 2013 and 2010 *California Building Code*® (CMC)
2022, 2019, 2016, 2013 and 2010 *California Residential Code*® (CRC)
2024, 2021, 2018, 2015, 2012 and 2009 *Uniform Swimming Pool, Spa and Hot Tub Code (USPSHC)**

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Compliance with the following standards:

APSP/ANSI/ICC 3-2014, Standard for Permanently Installed Residential Spas and Swim Spas
APSP/ANSI/ICC 5-2011, Standard for Residential Inground Swimming Pools
AC 274, 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)
IAPMO/ANSI Z124.7-2013(R18), Prefabricated Plastic Spa Shells

Identification:

The pool shells are identified by an encoded number on or near the riser in the top edge of the first step inside the pool. This encoded number contains the information for the manufacturer's name, the model designation, a serial number and the ICC-ES PMG listing.

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 LoneStar Fiberglass Components or LoneStar Pools of TX or its dealers for instructions. A permanent label must be attached adjacent to the above sign indicating the manufacturer's name, distributor's name, address and telephone number and the ICC-ES PMG listing mark.

Each unit of Spa Shell shall be marked with manufacturer's name or trademark and ICC-ES PMG mark of conformity. Marking shall be permanent and legible so as to be visible after installation. A label shall be permanently affixed to each unit in a visible location and shall include the manufacturer's name and/or trademark, and model designation. Units manufactured as "Shell Only" shall be so identified and labeled. Unit shall be permitted to be marked "IAPMO/ANSI Z124.7" signifying compliance with the standard.

Installation:

The pool and spa shells must be permanently installed in-ground in accordance with this report and the manufacture's published installation instructions. Pools must be installed by the manufacturer's recommendations. All plumbing and electrical installations must comply with the applicable codes in effect at the construction site or certain models may be installed above ground with manufactures approval.

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 over excavation is approximately 6 to 12 inches (152 to 305 mm) on the sides and ends. The over excavation at the pool bottom is approximately 4 inches (102 mm). The backfill for the pool is a payer of minimum 3" thick of ¼" - ½" clean, crushed limestone matching the pool or spa profile. This stone layer is compacted using a manual tamper. The pool shell must sit firmly on the stone and be within 1 Inch (25.4 mm) of level. Simultaneously waterfall and stone backfill operations then commence. The stone is compacted with a tamper. 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.

Models:

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

The Fiber fiberglass shells consist of one-piece fiberglass construction shop-formed over a mold. The material is minimum 1/4-inch-thick (6.35 mm), fiberglass-reinforced plastic (FRP), composed of unsaturated polyester ISO/NPG marine grade gel coat, vinyl ester resin skin coat and hand applied fiberglass roving. The surface finish is a marine grade ISO/NPG unsaturated polyester resin-based gel coat.

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, LoneStar Fiberglass Components or LoneStar Pools of TX or its dealers should be contacted for instructions.

Conditions of Listing:

1. The pool or spa 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.
2. Electrical and plumbing installations must comply with the applicable codes in effect at the construction site at the time of construction.
3. Clearances of the pools and spas 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.
4. A barrier must be installed in accordance with IBC Section 3109, ISPSC Section 305, CRC Section AG105 or IRC Section AG105, as applicable.
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 APSP/ANSI-5 must be submitted for approval by the code official.
6. The pools are classified as Type O pools: and therefore, are not intended for use with diving boards or other diving equipment; or
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, Section AG101.2 of the CRC or Section 304 of the ISPSC.
8. 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.
9. The fiberglass pool and spa shells are manufactured under a quality control program with surveillance inspections annually by ICC-ES.

TABLE OF MODELS

MODEL	LENGTH (feet/inches)	WIDTH (feet/inches)	MAX. DEPTH (feet/inches)	CAPACITY (gallons)	POOL TYPE
8'x10' Rectangle Spa	8'	10'	44"	2200	O
Arlington	8'-2"	9'-2"	4"	465	O
Atlantis	26'	13'	5'-6"	8482.5	O
Austin	44'	16'	6'	22400	O
Biloxi	30'	13'	6'6"	8900	O
Birmingham	29'	13'	5'4"	8700	O
Boston	7'-3"	7'-4"	3'	362.1	O
Cabo?	33'	16'	5'-11"	13072	O
Charleston?	37'	15'-8"	6'-2"	17000	O
Charlotte	43'	16'	6'	24000	O
Cheyenne*	17'	9'	4'-6"	2805	O
Dallas	10'-5"	8'-5"	3'-8"	2715	O
Denver	14'	8'	4'	2047.5	O
El Dorado	30'	14'	5'-7"	9234	O
Flagstaff	93"	93"	3'	475	O
Independence	44'-6"	18'	8'	20978	O
Lincoln	23'	11'	5'-4"	5265	O
Diving Spa Pool	16'	36'	8'	23,760	O
Louisville	16'	43'	8'	28,380	O
Memphis	15'	9'	21"	1080	O
Miami*	21'-4"	10'-9"	4'-6"	5793	O
New Orleans	27'-2"	12'-4"	5'-3"	7000	O
Phoenix	30'	14'	6'-6"	12711	O
Portland	8'-5"	8'-5"	3'	485	O
Santa Fe	32'	14'	5'-11"	10642	O
Savannah	32'	16'	6'	10393	O
Serenity	18'	9'-6"	10"	704	O
Spa Pool*	36'	16'	6'	19440	O
8'x30' Swim Spa*	8'	30'	4'6"	9000	O
Tahoe	12'-1"	8'-1"	10"	508	O
The Kingsbury	25'	12'	5'-2"	6,500	O
The Laguna	33'-4"	15'-6"	6'	13245	O
The Malibu	33'-4"	12'-6"	5'-3"	8933	O
The Tulsa	37'	16'	8'	18,000	O
The Vegas	39'-2"	13'-9"	5'	12,352	O
Topeka	24'	12'	4'	8,640	O

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

* Models are designed as Exercise Spas or Swim Spas and water depth shall not to exceed 6 feet 6 inches measured from the design waterline.