



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: Monarch Pool Manufacturing, Inc.  
3057 Tradeport Dr., Ste. 200  
Orlando, FL 32609  
[www.monarchpoolmfg.com](http://www.monarchpoolmfg.com)

### Compliance with the following codes:

2024, 2021, 2018, 2015, 2012 and 2009 *International Building Code*® (IBC)  
2024, 2021, 2018, 2015, 2012 and 2009 *International Residential Code*® (IRC)  
2024, 2021, 2018, 2015 *International Swimming Pool and Spa Code*® (ISPSC)  
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 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)  
APSP/ANSI/ICC 3-2014, Standard for Permanently Installed Residential Spas and Swim Spas  
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 Monarch Pool Manufacturing 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 or spa shells must be permanently installed in-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 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 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.

#### Models:

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 ANSI/NSPI APSP/ANSI-5 as Type O pools.

The fiberglass pool shells consist of one-piece fiberglass construction shop-formed over a mold. The materials are mat and woven roving fiberglass, hand laid over a mold and bonded with vinylester and

polyester resins. The exposed surface is factory-coated with an isophthalic gel and barrier coat to a minimum 30-mil (0.76 mm) thickness. The completed pool has a minimum cured thickness of 5/16 inch (7.9 mm).

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, Monarch Pool Manufacturing 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
Celestial	35'	16'	6'	13,000	O
Chateau	41'	16'	6'-6"	18,000	O
Duchess	33'	16'	7'	13,000	O
Dynasty	34'	15'	6'	12,000	O
Dynasty II	28'	11'-6"	5'-6"	10,500	O
Emperor	42'	16'	8'	22,000	O
Illustrious	34'	15'	6'-6"	13,000	O
Majestic	28'	12'	6'	7,500	O
Noble	23'	11'	5'-6"	5,500	O
Noble Shallow	23'	11'	1'-10"	1,700	O
Regal	32'	14'	6'	12,000	O
Sovereign	32'	8'-4"	6'	6,500	O
Splendid	24'	12'	5'-6"	6,000	O
Supreme	38'	16'	6'	13,000	O
Tahiti	33"	14"	7"	13,100	O
Windsor	40'	16'	8'	20,000	O

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