



CSI: DIVISION: 13 00 00—SPECIAL CONSTRUCTION
Section: 13 11 13—Above or 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: Prefabricated Concrete One-Piece Shallow Pool

Listee: Plungie USA Inc.
4400 TX State Highway 121, Suite #300
Lewisville, TX 75056
www.us.plungie.com

Compliance with the following codes:

2021, 2018, 2015, 2012 and 2009 *International Building Code®* (IBC)
2021, 2018, 2015, 2012 and 2009 *International Residential Code®* (IRC)
2021, 2018, 2015 *International Swimming Pool and Spa Code®* (ISPSC)
2020 and 2017 City of Los Angeles Building Code® (LABC)
2020 and 2017 City of Los Angeles Residential Code® (LARC)
2020 and 2017 Florida Building Code® (FBC)
2020 and 2017 Florida Residential Code® (FRC)
2019, 2016, 2013 and 2010 *California Building Code®* (CMC)
2019, 2016, 2013 and 2010 *California Residential Code®* (CRC)
2021, 2018, 2015, 2012 and 2009 *Uniform Swimming Pool, Spa and Hot Tub Code (USPSHC)**

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Compliance with the following standards:

ANSI/APSP/ICC 4-2012, Standard for Aboveground/Onground Residential Swimming Pools
ANSI/APSP/ICC 5-2011, Standard for Residential Inground Swimming Pools

Identification:

A label attached to the skimmer basket cover shall contain the following 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 unless otherwise drained for resurfacing or maintenance. 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 Plungie USA Inc. 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. If pool pump installation is not complete after shell is installed, the label shall be attached by contractor prior to completion of project.

Installation:

The pool shells must be permanently installed aboveground/onground, in-ground or semi inground 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 a concrete pad 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 prefabricated concrete one-piece shallow pools are permanently installed aboveground/onground, in-ground or semi inground and are intended for recreational use as lounging pools in residential applications with water circulated through a filter in a closed system. The pools comply with either ANSI/APSP/ANSI-4 or ANSI/APSP/ANSI-5, as applicable as Type O pools.

The prefabricated pool shells consist of one-piece concrete construction shop-formed over a mold. Concrete has been designed and constructed in accordance with the American Concrete Institute 'Building Code Requirement Reinforced Concrete' and 'Specifications for Structural Concrete for Buildings' (ACI 318 and ACI 301) latest editions. All concrete is stone aggregate, unless noted otherwise and have a 28-day compressive strength of 8,000 psi with type I/II cement using a maximum aggregate size of 3/8". Reinforcing is new billet steel conforming to ASTM A615, grade 60. Splices shall be contact lap splices with a minimum length of (30) bar diameters minimum. Every pool comes with an ecoFinish which is an internal thermo polymer coating. At request of customer, pool

shell may not include an ecoFinish as pool will be coated with plaster, tile or other pool finish prior to shell being filled with water.

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, Plungie USA Inc. or its dealers should be contacted for instructions.*

Conditions of Listing:

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.
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 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/APSP/ANSI-4 or ANSI/APSP/ANSI-5, as applicable and 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.
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 prefabricated concrete one-piece shallow pools are under a quality control program with surveillance inspections annually by ICC-ES.

TABLE 1

POOL SIZES	LENGTH (feet/inches)	WIDTH (feet/inches)	MAX. WATER DEPTH (feet/inches)	CAPACITY (gallons)	POOL TYPE
MAX (10' x 20')	20'	10'	4'-11"	5,400	O
ORIGINAL (8' x 15')	15'	8'	4'-11"	3,500	O
STUDIO (7' x 12')	12'	7'	4'-11"	2,100	O
ARENA (11' Round)	-	11'	4'-11"	2,100	O

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