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**DIVISION: 13—SPECIAL CONSTRUCTION**  
**Section: 13150—Swimming Pools**

**REPORT HOLDER:**

**LEISURE POOLS USA TRADING, INC.**  
4202 DIVIDEND DRIVE  
SAN ANTONIO, TEXAS 78219  
(210) 333-7477  
[www.leisurepoolsusa.com](http://www.leisurepoolsusa.com)

**EVALUATION SUBJECT:**

**FIBERGLASS ONE-PIECE SWIMMING POOL SHELLS**

**1.0 EVALUATION SCOPE**

**Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

**Properties evaluated:**

- Physical properties
- Durability

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

**3.0 DESCRIPTION**

The fiberglass pool shells consist of one-piece fiberglass construction shop-formed over a mold. The material is minimum  $\frac{7}{16}$ -inch-thick (7.9 mm), fiberglass-reinforced plastic (FRP), composed of vinyl ester resin and fiberglass roving. The surface finish is a vinyl ester resin-based gel coat.

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, Leisure Pools or its dealers should be contacted for instructions.

**4.0 INSTALLATION**

The pool 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 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.

**5.0 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:

- 5.1** 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.

- 5.2** Electrical and plumbing installations must comply with the applicable codes in effect at the construction site at the time of construction.
- 5.3** Clearances of the pools from slopes set forth in IBC Section 1805.3 or IRC Section R403.1.7 must be observed.
- 5.4** A barrier must be installed in accordance with IBC Section 3109 or IRC Section AG105, as applicable.
- 5.5** 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-5 must be submitted for approval by the code official.

## 6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for In-ground, Residential, Fiber-reinforced Plastic Swimming Pools and Permanently Installed Plastic Spas (AC274), dated December 2006.

## 7.0 IDENTIFICATION

The pool shells are identified adjacent to the skimmer with an imprint that includes the words "Leisure Pools USA," the model designation, a coded serial number and the ICC-ES evaluation report number (ESR-1732).

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 Leisure Pools USA or its dealers for instructions.*

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

TABLE 1

MODEL	LENGTH (feet/inches)	WIDTH (feet/inches)	MAX. DEPTH (feet/inches)	CAPACITY (gallons)
Rivera RI-34	34' 3"	15'	5' 10"	16,100
Rivera RI30	30'	15'	5' 8"	14,300
Moroccan M-38	38' 4"	15'	6' 2"	19,800
Moroccan M-34	34' 3"	15'	5' 10"	17,100
Moroccan M-31	31'	15'	5' 8"	15,000
Moroccan M-27	27'	14'	5' 3"	11,600
Tuscany T-29	28' 4"	14' 8"	5' 7"	12,400
Tuscany T-23	23'	12' 4"	5'	7,800
Roman R-28	28'	11' 10"	5' 5"	12,000
Roman R-23	23'	11' 10"	5' 1"	8,400
Roman R-19	19'	11' 10"	5' 1"	6,800
Elegance E-33	33'	15'	5' 11"	17,400
Elegance E-30	30'	15'	5' 8"	15,200
Elegance E-27	27'	15'	5' 3"	11,700

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