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RESEARCH REPORT: RR 24851  
(CSI # 13150)

Expires: June 1, 2012  
Issued Date: July 1, 2010  
Code: 2008 LABC

**GENERAL APPROVAL** – Renewal / Technical Modification - Life Pools and Spas’  
Prefabricated Fiberglass Reinforced Polyester Swimming Pool Shell.

**DETAILS**

Life Pools and Spas’ Prefabricated Swimming Pool Shell is made of Fiberglass Reinforced Polyester. Glidden isothalic gel coat is sprayed over the mold in coats to build up a required thickness which is then reinforced by a layer of chopped fiberglass and resin with catalyst.

Unit Name	Size	Height	Water Volume
Osprey	15' x 24' – 38'	4'	8500 – 13,000 gals
	7' - 10" octagonal	3"	500 gals

**The approval is subject to the following conditions:**

1. The swimming pool shell shall be fabricated in the shop of a fabricator approved by the Los Angeles City Building and Safety Department.
2. Each unit shall be permanently and legibly marked with the manufacturer’s name and trade mark.

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3. Design and construction of the pool shall comply with Information Bulletin P/BC 2008-14 and the 2008 City of Los Angeles Building Code where applicable. Design of the swimming pool shell is on file in the office of Engineering Research Section.
4. A swimming pool permit application is required for each installation.
5. The pools and spas shall not be located where non-combustible materials are required.
6. Adequacy of the structure to support the operating loads of the pool and spa must be analyzed and calculated. Plans and calculations must be signed and stamped by a civil or structural engineer licensed by the State of California and be submitted to the Structural Plan Check for review and approval.
7. According to ASTM E84 test, flame-spread index is 25 and smoke density is 425.
8. Electrical and Plumbing systems shall be cleared through the Electrical and Mechanical Plan Check.
9. The pools and spas may be located on roofs where a Class B fire retardant roof covering is permitted.

## **DISCUSSION**

The technical modification is to approve the dimensions of the pool size - 15' wide, 24'-38' long and maximum 4ft deep.

The report is in compliance with the 2008 City of Los Angeles Building code.

The approval is based on tests and calculations. Tests conducted in accordance with UBC Standard No. 15-2 meeting requirement of Class B fire retardant roof covering have been submitted.

The following FRP properties were used in the design of the pool shell:

Allowable flexural strength = 2,750 psi

Allowable tensile strength = 1,500 psi

Modulus of elasticity =  $1 \times 10^6$  psi

All plastics used in construction within the scope of the Building Code must be produced by a Los Angeles City approved Type I fabricator.

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RE: Life Pools and Spas' Prefabricated Fiberglass Reinforced Polyester Swimming  
Pool Shell

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

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Attachment: Pool Section and Detail (1 sheet)