

**City of Palos Verdes Estates
Swimming Pool & Spa Standard Requirements List**

Plan Check # _____ Date _____

Address _____

Comments/Notes _____

Approvals _____ **REQUIRES PLANNING AND ART JURY APPROVAL**

Grading

1. Indicate amount of cubic yards of cut and/or fill for pool/spa
2. Show all existing and new contours
3. Show all elevations pertinent to pool/spa
4. Planning Commission review required
5. ___ Geology report ___ Soils report ___ Minimum - soils site review required

Plumbing

1. Pool to be plumbed for future solar heating (Title 24)
2. Directional water inlet required to prevent stratification of the heated supply water and the colder existing water. (Title 24)
3. 3" P-Trap required for all swimming pools and spas. Indicate location and route to sewer
4. Provide a sediment trap for the gas appliance per section 512.4 of the 2009 Uniform Swimming Pool, Spa & Hot Tub code

Electrical

1. All outdoor receptacles to have ground fault interrupter (G.F.C.I.)
2. Rigid conduit is required for all underground installations
3. 125 V receptacle required 10 to 20 feet from pool
4. Indicate that all metal items within 5' of water's edge of the pool shall be bonded.
5. A minimum conductive surface area of 9 sq in. shall be installed in contact with the pool, outdoor spa, or outdoor hot tub structure water. This water bond is permitted to consist of metal parts that are bonded in 680.26(B).

Mechanical

1. Show location of pool/spa heating equipment (Title 24)
2. Weatherproof plate on heater that provides instructions for the energy efficient operation of the swimming pool. (Title 24)
3. Heater to have on/off switch on heater. (Title 24)
4. 75% thermal efficiency required for gas heater. (Title 24)
5. Pool cover required (Title 24)
6. Time clock required for equipment (Title 24)
7. Note on plans: **Manufacturer's heater specifications to remain on job with approved plans for rough mechanical inspection.**

Fence, Gate & Alarms

1. Pedestrian walkway access gates shall meet minimum fence height requirements of 5' (60") minimum per local ordinance.
2. All gates shall be self-closing and have a self-latching device. The release mechanism of the self-latching device shall be located not less than 60" from the bottom of the gate: (1) The release mechanism shall be located on the swimming pool side of the barrier, (2) A maximum vertical clearance from the ground to the bottom of the enclosure of 2", (3) Gaps or voids, if any, are not to allow a sphere equal to or greater than 4" in diameter to pass through, (4) Any outside surface shall be free of protrusions, cavities or other physical conditions that would serve as a handhold or foothold that could enable a child to climb over.
3. Provide audible door alarms for all or any doors that have direct access to the pool or spa, per the 2010 CBC section 3109.4.4.2 or one of the other seven requirements within this section.

Structural

1. Expansive soil design required.
2. On standard pool/spa plans, cross out details that do not apply to the job.
3. Provide structural calculations.
4. Plans/calculations must follow 2009 Uniform Swimming Pool, Spa & Hot Tub Code.
5. Plans shall be wet stamped by licensed designer and soils consultant.
6. Provide a note on Plan that a Deputy Inspector will be required at and during the gunite process.

▪CITY OF PALOS VERDES ESTATES▪
SELF CERTIFICATION PROGRAM FOR SMOKE AND CARBON MONOXIDE
ALARMS

Project Address: _____

Permit Number: _____

Property Owner: _____

Contractor: _____

I, the undersigned, hereby certify that I am the owner and occupant of the above referenced property or the acting agent for the owner/occupant. I further certify that smoke alarms and carbon monoxide alarms are present and functional in all the following locations (Note: All boxes below must be checked; retrofitted detectors may be battery operated.)

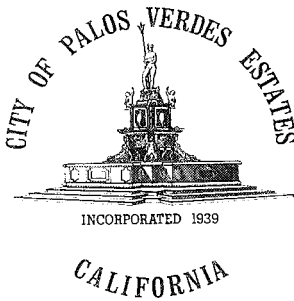
- Smoke Alarms and Carbon Monoxide Alarm shall be located: On the ceiling or wall outside of each separate sleeping area in the immediate vicinity of bedrooms and hallway.
- Smoke Alarms: In each room used for sleeping purposes.
- Smoke Alarm and Carbon Monoxide Alarm: In each story, including any habitable basement. (Note: In dwellings or dwelling with split levels and without an intervening door between the adjacent levels, a smoke alarm and a carbon monoxide detector installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.)

Signature: _____ Date: _____

California Residential Code (CRC) Section R314.1, CRC R315.2 states in part that existing dwellings be " ... retrofitted with smoke detectors and carbon monoxide detectors when a building permit is issued for, worked on or in a building that is valued at \$1,000 or more." CRC Section R314.3, CRC Section R315.3 defines required locations as indicated above.

NOTE: This Certification is only used when normal access to the interior of the dwelling by the City of Palos Verdes Estates Building Inspector is not achieved during the course of project construction. It is normally used for projects such as re-roofing, re-siding, patio covers, swimming pools and the like.

CITY OF PALOS VERDES ESTATES



❖ POOL AND SPA ANTI-ENTRAPMENT COVER CERTIFICATION ❖

Revisions to the **California Health & Safety Code Section 115920**, known as the Swimming Pool Safety Act, came into effect January 1, 2007. Section 115928, subsection (d) states that *"whenever a building permit is issued for the remodel or modification of a single family home with an existing swimming pool, toddler pool, or spa, the permit shall require that the suction outlet of the existing swimming pool, toddler pool or spa be upgraded so as to be equipped with an antientrapment cover meeting current standards of the American Society for Testing and Materials (ASTM) or the American Society of Mechanical Engineers (ASME)."*

For homes that have a swimming pool, toddler pool, or spa, the anti-entrapment device **must be installed prior to final inspection approval**. For homes that do not have a swimming pool, toddler pool, or spa we request that the owner so declare on this form.

Building Permit #: _____

Property address: _____

I am the Property Owner and certify that: (CHECK APPROPRIATE BOX BELOW)

The property does not have a swimming pool, toddler pool or spa.

The property has a swimming pool, toddler pool or spa and I hereby acknowledge that an anti-entrapment suction cover meeting the current standards of the American Society for Testing and Materials or the American Society of Mechanical Engineers is installed at the swimming pool, toddler pool, and/or spa located at the above referenced address; in accordance with the revisions made to the Pool Safety Act as outlined above.

Property Owner's Signature: _____ Date: _____

Please print name: _____

ATTENTION PROPERTY OWNER:
PLEASE PRESENT THIS COMPLETED FORM TO THE BUILDING
INSPECTOR PRIOR TO THE FINAL INSPECTION

Pool And Spa Heating Systems

Site Address:

Enforcement Agency:

Permit Number:

Pool and Spa Heating Systems requirements

§114(a): Systems and Equipment.

- 1. Heater has a thermal efficiency that complies with the Appliance Efficiency Regulations.
- 2. Has a readily accessible on-off switch mounted outside of the heater.
- 3. Weatherproof plate or card containing operating instructions for the pool or spa heater.
- 4. No electric resistance heating except for listed package units that has fully insulated enclosures and tight fitting covers that are insulated to at least R-6. Or if documentation is provided that at least 60 % of the annual heating energy is from site solar energy or recovered energy.
- 5. Heating system has no pilot light.

§114(b): Installation.

- 1. System is installed with at least 36" of pipe between the filter and heater, or dedicated suction and return lines, or built-in or built-up connections for future solar heating.
- 2. A cover for outdoor pools or spas that have a heat pump or gas heater.
- 3. Pool system has directional inlets to adequately mix the pool water
- 4. Time switch which will allow the pump to be set or programmed to run during off-peak periods only

§150(p) Pump Sizing and flow rate specification

- 1. The pump specified is listed in the CEC database of certified pool pumps.
- 2. The pump flow rate shall be calculated based on pool sizing table below.
- 3. The pump is capable of operating at 2 or more speeds (not applicable if pump is less than 1 horsepower).
- 4. Each auxiliary pool load is served by either a separate pump, or the system is served by a multi-speed pump.

Pool sizing (Values are based on a maximum allowable turnover rate of 6- hours)

Max Pool Volume (gallons)	Min Pipe D or Greater (inches)		Min Filter Area or more (square feet)			Max Pump Flow (gpm)
	Return	Suction	Cartridge	Sand	DE	
13,000	1.5	1.5	100	2.4	20	36
17,000	1.5	2	130	3.1	25	47
21,000	2	2	160	3.9	30	58
28,000	2	2.5	210	5.2	40	78
42,000	2.5	3	320	7.8	60	117
48,000	3	3	360	8.9	70	133

Note: For pumps greater than 1 hp. The maximum Pump Flow is the lowest speed default filtration

- 5. Calculated volume of pool _____ (gallons).
- 6. Return Pipe Diameter _____ (inches).
- 7. Suction Pipe Diameter _____ (inches).
- 8. Filter Type _____ (Cartridge, Sand, DE).
- 9. Filter Surface Area _____ (sf).
- 10. Max Pump Flow _____ (gpm).

INSTALLATION CERTIFICATE		CF-6R-MECH-03
Pool And Spa Heating Systems		(Page 2 of 2)
Site Address:	Enforcement Agency:	Permit Number:

System Piping

- 1. The suction side pipe is straight for at least 4 pipe diameters before entering the pump (See table below for the required straight run lengths for various pipe sizes).
- 2. The design uses low pressure drop fittings (sweep90's)

Pipe Diameter (inch)	Required Pipe Length leading into pump (inch)
1.5	6
2	8
2.5	10
3	12

Filtration Equipment

- 1. If a backwash valve is used: The diameter of the backwash multi-port valve is 2 inches or as large as the circulation pipe, whichever is greater

DECLARATION STATEMENT

- I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for construction, or an authorized representative of the person responsible for construction (responsible person).
- I certify that the installed features, materials, components, or manufactured devices identified on this certificate (the installation) conforms to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcement agency.
- I reviewed a copy of the Certificate of Compliance (CF-1R) form approved by the enforcement agency that identifies the specific requirements for the installation. I certify that the requirements detailed on the CF-1R that apply to the installation have been met.
- **I will ensure that a completed, signed copy of this Installation Certificate shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Installation Certificate is required to be included with the documentation the builder provides to the building owner at occupancy.**

Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)		
Responsible Person's Name:	Responsible Person's Signature:	
CSLB License:	Date Signed:	Position With Company (Title):