

COMMUNITY DEVELOPMENT

Building and Safety

RESIDENTIAL SWIMMING POOL/SPA INSPECTION RECORD (FOR SINGLE FAMILY HOME POOLS ONLY)

POST ON JOB IN A CONSPICUOUS PLACE

PERMIT NUME	BER	DATE		A CITY APPROVE REQUIRED TO BE	ED SPECIAL INSPECTOR IS E PRESENT DURING THE	
				APPLICATION OI	F GUNITE.	
JOB ADDRESS						
			SPECIAL INSPECTOR NO.			
OWNER						
				SIGNATURE		
NOTES: 1. A	pplies to permanently inst	alled residential in-ground	swimming po	ols for a single family	homes.	
2. C	ontractor to complete siz	ing calculations under No	te 13 on Pag	e 2 prior to 1st calle	d inspection.	
3. A	II work is subject to the Cit umbers following inspecti	y of Irvine General Notes I on items below correspond	to items desc	g Pools And Spas . Tribed on Page 2 of th	is card which will be reviewed at	
tł	ne time of the given inspect	tion.	to items dese	indea on rage 2 or th	is card which will be reviewed at	
INSP. CODE		INSPECTION		DATE	SIGNATURE	
	itoms must be ready	when requesting a DPE	CUNITE inc	naction		
601	Pool & equipment loca	tion	GUNITEINS	pection:		
601	Steel reinforcement/Electrical bonding					
601	Bough plumbing & pressure test (See NOTE 10)					
601	Hydrostatic relief value					
601	OK TO GUNITE					
The following	g items must be ready	when requesting a PRF-	DFCK inspe	ction:		
602	Electrical conduit/Gas pipe & test					
602	Back wash line & P-trap (See NOTE 15)					
602	Area drain					
602	Deck reinforcement electrical bond					
603	OK TO PLACE DECK C	ONCRETE				
The following	g items must be ready	when requesting a PRE-	PLASTER in	spection:		
604	Back wash & P-trap rec	eptor				
604	Heater & vent/Plumbin	g system (See NOTE 1-16)			
604	Electrical (Except pool	light)				
604	Door alarm/Safety features					
604	Fencing/Gates & acces	S				
604	OK TO PLASTER					
The following	g items must be ready	when requesting a FINA	L inspectio	n:		
605	Water Quality BMP's					
605	Pool light final/GCFI test					
605	Energy requirements					
605	OK TO USE POOL/SPA (See NOTE 13,17,18)					
			DON	IOT USE POOL/SPA	UNTIL THE ABOVE IS SIGNED	
606	Miscellaneous inspections					

NOTES (Referenced from the 2008 Building Energy Efficiency Standards for Residential and Non-Residential Buildings)

§114(a): Pool/Spa Heating System or Equipment

- 1. Minimum thermal efficiency of 78% per the Appliance Efficiency Regulations.
- 2. Readily accessible on-off switch mounted outside of the heater.
- 3. Weatherproof plate or card containing operating instructions for the pool/spa heater.
- 4. No electric resistance heating except for: 1) listed package units that have fully insulated enclosures and tight fitting covers that are insulated to at least R-6, or 2) if documentation is provided indicating at least 60% of the annual heating energy is from site solar energy or recovered energy.
- 5. No pilot light.

§114(b): Pool/Spa Installation

- 6. At least 36 inches of pipe installed between the filter and heater or dedicated suction and return lines, or built-in or built-up connections for future addition of solar heating.
- 7. Pool system has directional inlets to adequately mix the pool water.
- 8. Time switch which will allow the pump to be set or programmed to run during off-peak periods only.

§150(p)(1): Pool System Pump Sizing and Flow Rate Specification

- 9. The pump specified is listed in the California Energy Commission (CEC) database of certified pool pumps.
- 10. The pump flow rate shall be calculated based on pool sizing table below.
- 11. The pump is capable of operating at 2 or more speeds (not applicable if pump is less than 1 horsepower).
- 12. Each auxiliary pool load is served by either a separate pump, or the system is served by a multi-speed pump.
- 13. Pool sizing (values are based on a maximum allowable turnover rate of 6 hours):

Max Pool Volume (gallons)	Min Pipe Diameter 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 horsepower, the Maximum Pump Flow is the lowest speed default filtration.

Calculated Pool Volume	gallons	= [(7.5 gal/cu ft) x (Pool Area in sq ft) x (Av	erage Depth in ft)]
Return Pipe Diameter	inches	Filter Type: Cartridge	e Sand DE	Max Pump Fl	ow	gpm
Suction Pipe Diameter	inches	Filter Surface Area	sq ft			

§150(p)(2): Pool System Piping

14. The suction side pipe is straight for at least 4 pipe diameters before entering the pump (See table for the required straight run lengths for various pipe sizes).

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

15. The design uses low pressure drop fittings (sweep90's).

§150(p)(3): Pool System Filtration Equipment

- 16. If a backwash valve is used, the diameter of the backwash muti-port valve is 2 inches or as large as the circulation pipe, whichever is greater.
- 17. Verify cover for outdoor pools or spas that have a heat pump or gas heater.
- 18. Collect CF-6R-MECH 03.