



City of Hughson
Building Safety Division
7018 Pine Street
Hughson, CA 95326
(209) 883-4054

INFORMATION AND REQUIREMENTS FOR RESIDENTIAL SWIMMING POOLS

PLAN & APPLICATION SUBMITTAL

1. One (1) completed Building Permit Application with the following:
 - a.) One (1) copy of the Grant Deed.
 - b.) One (1) copy of the Owner-Builder Declaration Form, (if a licensed contractor is not used).
 - c.) One (1) copy of the Worker's Compensation Certificate, (if you hire anybody to help with your project).
2. Two (2) original complete sets of plans and calculations from a California Licensed Engineer.
3. Three (3) Identical Site Plans (Drawn to scale); see the "Enclosure/Barrier" section and the "Sample Site Plan" for requirements and details.
⇒ ****Please Note:** The two (2) declarations contained in this packet must be completed and submitted at the times indicated on page 2, (Inspections).

POOL GLAZING REQUIREMENTS

Glazing in walls and fences, used as the barrier for indoor and outdoor swimming pools or spas, shall be safety glazing when all of the following conditions are present:

1. The bottom edge of the glazing is less than 60 inches above the pool side of the glazing
2. The glazing is within 5 feet of a swimming pool or spa water's edge.
(2406.3, California Building Code)

ENCLOSURE/ BARRIER REQUIREMENTS

A pool barrier must be installed meeting the requirements of Health & Safety Code Article 2.5, Section 115920 through 115929. Following is an abbreviated guideline of those requirements:

1. If a portion of the house or garage is used as part of the barrier, doors giving direct access to the pool area must have alarms. In place of alarms, doors may be equipped with self-closing, self-latching devices with release mechanisms placed no lower than 54" above the floor.
2. Alarms shall sound continuously for a minimum of 30 seconds immediately after the door is opened, and shall be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset under all conditions. The alarm may be equipped with a manual mean to temporarily deactivate for a single opening. The deactivation period shall last no longer than 15 seconds. The deactivation means shall be located at least 54" above the threshold of the door.
3. Any barrier / fence shall be a minimum of 60" above the ground and have a maximum distance of 2" from the ground to the bottom of the barrier. *Fences separating the pool from the neighbors or from the front or side yards must be a minimum of 72" above the ground.*
4. Any access gates through the enclosure shall open away from the swimming pool and be self-closing with a self-latching device placed no lower than 60 inches above the ground.
5. Gaps or voids in the barrier / fence shall not allow passage of a sphere equal or greater than 4".
6. The outside surface of the barrier / fence shall be free of protrusions, cavities or other characteristics that would serve as handholds or footholds that enable a child below the age of five years to climb over.
7. Covers used to satisfy the barrier / fence requirements shall meet all the requirements and performance standards of the American society for Testing and Materials (ASTM) standard F1346-91. Documentation shall be provided at the time of permit application.

*Swimming Pool or Spa means pool, pond, lake or open tank capable of containing water to a depth greater than one and one-half (1 ½) feet at any point.

INSPECTIONS

Inspection requests can be made by calling the Building Safety Division automated inspection line at (209)-883-4054. The inspection requests made Monday through Thursday prior to 4:00 P.M. may be scheduled for the following day. When requesting inspections please give the date you wish the inspection performed, the name of the firm or individual requesting the inspection, the address where the inspection is to be made, the permit or application number and the inspection type.

THE FOLLOWING INSPECTIONS ARE REQUIRED:

A) POOL STEEL & LOCATION –

At this inspection the following will be checked:

1. Distance of pool from house and property lines (minimum 4' to property lines)
2. Water lines – (pump to 50 lbs – 609.4 UPC)
3. Gas line, if applicable – (pump to 15 lbs – gauge shall be 1/10 pound increments or less)
4. Location of pool equipment (not to be within 4' setback)
5. Underground electrical
6. Grounding of pool steel, diving board, wet niche (light)
7. The pool steel for conformance with plans. (Ties normally every other bar for 12" bar spacing & every third bar for 6" bar spacing)

B) POOL DECK –

At this inspection the following will be checked:

1. Thickness of the pool deck.
2. Grounding to wire mesh or any metal within 60" of the pool deck.
3. Drainage and drain lines.
4. Clearance from the siding or stucco to the pool deck (2" minimum required)

C) PRE PLASTER–

At this inspection the following will be checked:

1. Pool fence/barrier
2. GFIC receptacle
3. Pool equipment – grounding & installation

4. Pool electrical – Breaker electrical panel, equipment connection
 5. Wet niche fixture
 6. Glazing (2406.3 CBC)
 7. Clearance from deck to siding or stucco
- **NOTE:** "Exit Alarm Declaration" must be submitted on the date of this inspection.

D) POOL FINAL

At this inspection the following will be checked:

1. Drainage
2. Review of entire project

****NOTE:** "Anti-Entrapment Declaration" must be submitted on the date of this inspection.

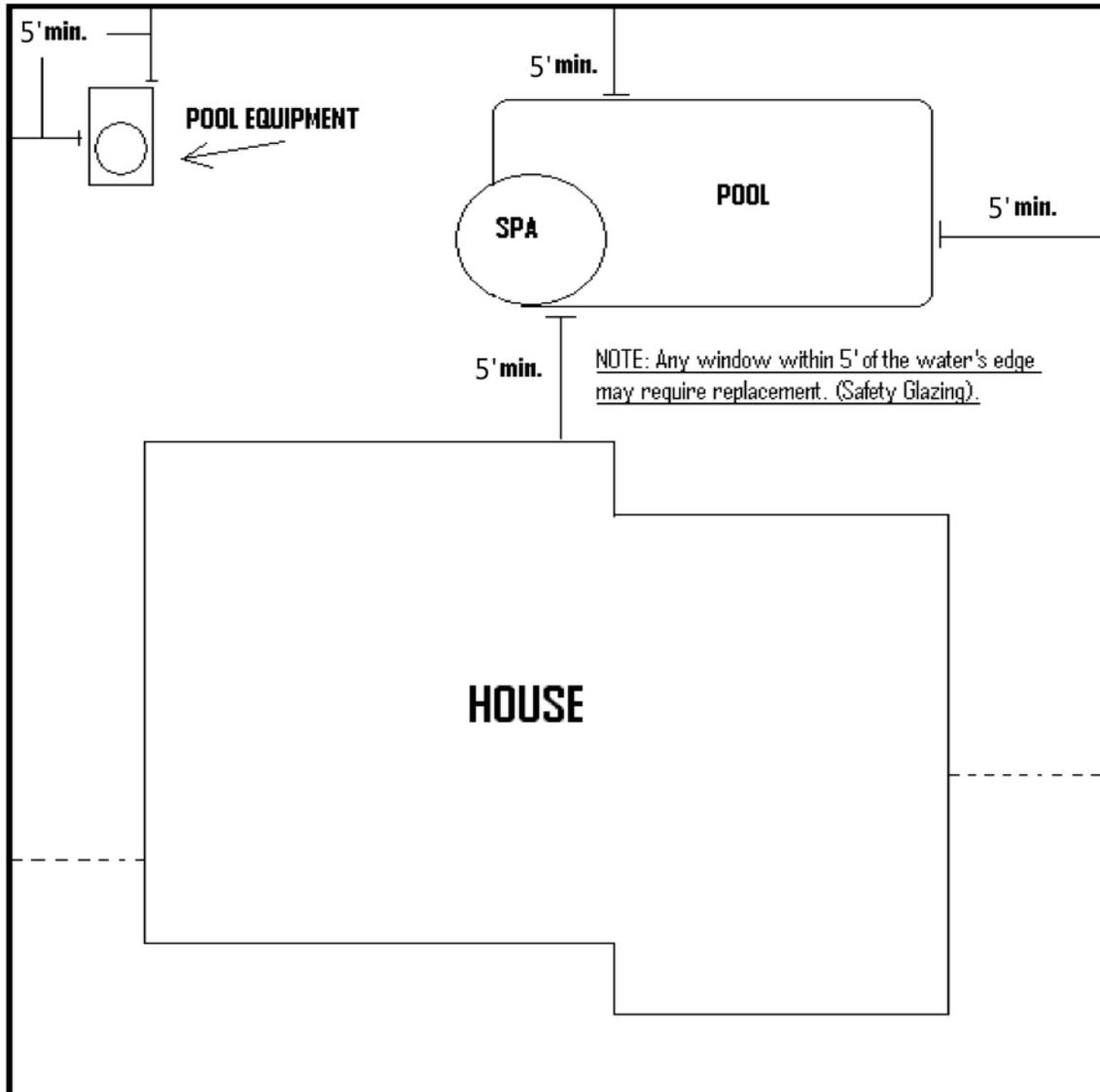
E) LINER & ABOVE GROUND POOLS –

The following must be inspected if applicable:

1. GFCI receptacle. Pool light grounding (if installed).
2. Ground of diving boards and rails
3. Ground to motor (pool equipment)
4. Breaker size @ main panel
5. Anchorage of motor
6. Specifications on approved plans
7. Site plan clearances and conditions
8. Pool fence/barrier – door alarms
9. Glazing (2406.3 CBC)

SAMPLE SITE PLAN

This site plan represents minimum setback requirements only



Your site plan must include the following –

- The location of the pool and pool equipment – Show the distances of pool, spa and equipment to the property lines and all permanent structures located on the property.
- Indicate the method of providing drainage; the deck and the yard should be contoured to provide a drainage gradient of a least 2% toward approved drainage facilities, (this is normally the street). Show the location & size of all deck drains, interceptor drains and drainage lines. Drainage lines must be sufficient to drain water that accumulates around the pool as well as rainwater run-off from the roof onto the pool deck. (See Appendix “D” of the California Plumbing Code, using 2” of rainfall per hour, to calculate the size of drains needed). Drainage lines cannot be corrugated or flexible without prior Building Department approval.
- Show the location of all existing and proposed electrical outlets that are within 20 feet of the pool. All 125-volt outlets located within 20 feet of the pool must be GFCI protected. At least one 125 volt, (15 or 20 ampere), receptacle must be located between 10’ & 20’ from the pool. (680-22, California Electrical Code).
- Show the location of any easements. Show the size and volume of the pool.
- Show the scale at which the plan is drawn Show the project address for the pool
- Indicate the location and type of fence or barrier that will be used.

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FACTS AND FIGURES ON CHILD DROWNINGS

Each year, nationwide, about 300 children under 5 years old drown in swimming pools, usually a pool owned by their family. In addition, more than 2,000 children in that age group are treated in hospital emergency rooms for submersion injuries. Medical costs for submersion victims during the initial hospitalization alone can be quite high. Costs can range from an estimated \$4,000 for a victim who recovers fully to \$160,000 for a victim with severe brain damage. Some severely brain damaged victims have initial hospital stays in excess of 120 days and expenses in excess of \$300,000.

Following are just a few facts uncovered by the U .S. Consumer Product Safety Commission (CPSC) in a comprehensive study of drowning and submersion incidents involving children under 5 years old in Arizona, California, and Florida.

Seventy-five percent of the submersion victims studied by CPSC were between 1 and 3 years old; 65 percent of this group were boys. Toddlers, in particular, often do something unexpected because their capabilities change daily.

At the time of the incidents, most victims were being supervised by one or both parents. Forty-six percent of the victims were last seen in the house; 23 percent were last seen in the yard or on the porch or patio; and 31 percent were in or around the pool before the accident. In all, 69 percent of the children were not expected to be at or in the pool, yet they were found in the water.

Submersion incidents involving children usually happen in familiar surroundings. Sixty- five percent of the incidents happened in a pool owned by the child's family and 33 percent of the incidents happened in a pool owned by friends or relatives.

Pool submersions involving children happen quickly. A child can drown in the time it takes to answer a phone. Seventy-seven percent of the victims had been missing from sight for 5 minutes or less.

Survival depends on rescuing the child quickly and restarting the breathing process, even while the child is still in the water. Seconds count in preventing death or brain damage.

Child drowning is a silent death. There's no splashing to alert anyone that the child is in trouble.

Publication No. 359
U.S. CONSUMER PRODUCT SAFETY COMMISSION
Washington, DC 20207
Web site: www.cpsc.gov
Toll-free hotline: 1-800-638-2772

Swimming Pool Safety Act

California Health & Safety Code

115922. (a) Commencing January 1, 2007, except as provided in Section 115925, whenever a building permit is issued for construction of a new swimming pool or spa, or any building permit is issued for remodeling of an existing pool or spa, at a private, single-family home, it shall be equipped with at least one of the following seven drowning prevention safety features:

- (1) The pool shall be isolated from access to a home by an enclosure that meets the requirements of Section 115923.
- (2) The pool shall incorporate removable mesh pool fencing that meets American Society for Testing and Materials (ASTM) Specifications F 2286 standards in conjunction with a gate that is self-closing and self-latching and can accommodate a key lockable device.
- (3) The pool shall be equipped with an approved safety pool cover that meets all requirements of the ASTM Specifications F 1346.
- (4) The residence shall be equipped with exit alarms on those doors providing direct access to the pool.
- (5) All doors providing direct access from the home to the swimming pool shall be equipped with a self-closing, self-latching device with a release mechanism placed no lower than 54 inches above the floor.
- (6) Swimming pool alarms that, when placed in pools, will sound upon detection of accidental or unauthorized entrance into the water.

These pool alarms shall meet and be independently certified to the ASTM Standard F 2208 "Standards Specification for Pool Alarms" which includes surface motion, pressure, sonar, laser, and infrared type alarms. For purposes of this article, "swimming pool alarms" shall not include swimming protection alarm devices designed for individual use, such as an alarm attached to a child that sounds when the child exceeds a certain distance or becomes submerged in water.

(7) Other means of protection, if the degree of protection afforded is equal to or greater than that afforded by any of the Devices set forth above, and have been independently verified by an approved testing laboratory as meeting standards for those devices established by the ASTM or the American Society of Mechanical Engineers (ASME).

(b) Prior to the issuance of any final approval for the completion of permitted construction or remodeling work, the Local building code official shall inspect the drowning safety prevention devices required by this act and if no violations are found, shall give final approval.

115923. An enclosure shall have all of the following characteristics:

- (a) Any access gates through the enclosure open away from the swimming pool, and are self-closing with a self latching device placed no lower than 60 inches above the ground.
- (b) A minimum height of 60 inches.
- (c) A maximum vertical clearance from the ground to the bottom of the enclosure of two inches.
- (d) Gaps or voids, if any, do not allow passage of a sphere equal to or greater than four inches in diameter.
- (e) An outside surface free of protrusions, cavities, or other physical characteristics that would serve as handholds or footholds that could enable a child below the age of five years to climb over.

115928. Whenever a building permit is issued for the construction of a new swimming pool or spa, the pool or spa shall meet all of the following requirements:

- (a) (1) The suction outlet of the pool or spa for which the permit is issued shall be equipped to provide circulation throughout the pool or spa as prescribed in paragraph (2).
- (2) The swimming pool or spa shall have at least two circulation drains per pump that shall be hydraulically balanced and symmetrically plumbed through one or more "T" fittings, and that are separated by a distance of at least three feet in any dimension between the drains.
- (b) Suction outlets that are less than 12 inches across shall be covered with anti-entrapment grates, as specified in the ASME/ANSI Standard A 112.19.8, that cannot be removed except with the use of tools. Slots or openings in the grates or similar protective devices shall be of a shape, area, and arrangement that would prevent physical entrapment and would not pose any suction hazard to bathers.
- (c) Any backup safety system that an owner of a new swimming pool or spa may choose to install in addition to the requirements set forth in subdivisions (a) and (b) shall meet the standards as published in the document, "Guidelines for Entrapment Hazards: Making Pools and Spas Safer," Publication Number 363, March 2005, United States Consumer Product Safety Commission.

115928.5. Whenever a building permit is issued for the remodel or modification of 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 anti-entrapment cover meeting current standards of the American Society for Testing and Materials (ASTM) or the American Society of Mechanical Engineers (ASME).



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DECLARATION – EXIT ALARMS

NOTE TO HOMEOWNER(S) –

- ✓ **THIS FORM SHOULD BE COMPLETED AFTER ALARM INSTALLATION IS COMPLETE**
- ✓ **THE ORIGINAL COPY MUST BE PROVIDED TO THE INSPECTOR AT THE PRE PLASTER INSPECTION**

I am the property owner of _____, in Hughson, California.

I have read *The Swimming Pool Safety Act*, and understand the provisions contained therein.

I hereby declare that an exit alarm(s) meeting the provisions of *The Swimming Pool Safety Act* have been installed on each door providing direct access to the pool. I further declare that I have checked the alarms and found them to be in full compliance with all provisions of *The Swimming Pool Safety Act* relating to exit alarms.

I hereby declare that I have received a copy of *Facts and Figures on Child drowning handout provided to us by the City of Hughson*.

Property Owner (please print)

Property Owner (please print)

Signature

Signature

Date

Date

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