



**VILLAGE OF GRAYSLAKE
DEPARTMENT OF BUILDING AND ZONING
Ten South Seymour
Grayslake, IL 60030
(847) 223-8515**

RESIDENTIAL SWIMMING POOL REQUIREMENTS

All swimming pools exceeding 24 inches in depth shall be fenced as required below.

PERMITS

Building Permits are required for the construction of above ground swimming pools with a depth exceeding 24 inches, inground swimming pools, spas, and hot tubs.

Electrical Permits are required for the extension of circuits or new circuits serving swimming pool equipment. Installation of junction boxes, ground fault circuitry, pool grounding, etc., shall conform to the 2011 National Electrical Code (NEC) requirements.

Plumbing Permits are not required for the swimming pool plumbing when only circulating the pool water, and separated from the sanitary sewer or potable water supply. Plumbing permits are required if the swimming pool plumbing is connected to the domestic potable water supply or sanitary sewer.

Plans shall be submitted to the Building Department to obtain a permit. Provide a Plat Plan showing the following information:

- a. Proposed swimming pool, hot tub or spa location-show distances to property lines.
- b. House and adjacent structures.
- c. Location of overhead or underground electrical wires (provide dimensions from swimming pool, hot tubs and spas).
- d. Fence or other swimming pool enclosure.
- e. Provide a deck-framing plan where the decks of wood construction or walkways are supporting hot tubs or spas (see the Building Department handout on Wood Deck Requirements).

SETBACKS AND SWIMMING POOL LOCATION

Swimming Pools shall be located in the rear yard only, and may not be located in a required easement. They must be located a minimum of 5 feet from a property line.

BUILDING CODE

The swimming pool, hot tub or spa shall be constructed in accordance with Appendix G or the 2009 International Residential Code:

1. In-ground swimming pools shall be designed and constructed in conformance with ANSI/NSPI-5.
2. Above ground or on ground swimming pools shall be designed and constructed in conformance with ANSI/NSPI-4
3. Permanently installed hot tubs and spas shall be designed and constructed in conformance with ANSI/NSPI-3.
4. Portable hot tubs and spas shall be designed and constructed in accordance with ANSI/NSPI-6.

FENCE (BARRIER) REQUIREMENTS

An out-door swimming pool, including an in-ground, an above ground, an on-ground pool, hot tub, or spa shall be provided with a Fence (barrier), which shall comply with the following:

1. The height of the fence shall be at least 48 inches (1219 mm), measured on the side of the fence, which faces away from the swimming pool, with a maximum height of 6-feet (mm). The maximum vertical clearance between grade and the bottom of the fence shall be 2 inches (51 mm), measured on the side of the fence, which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an above ground swimming pool, the barrier may be mounted on top of the swimming pool structure. Where the barrier is mounted on top of the swimming pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).
2. Openings in the fence shall not allow the passage of a 4-inch diameter sphere.
3. Solid barriers that do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions except for the normal construction tolerances and tooled masonry joints.
4. Where the fence is composed of horizontal and vertical members and the distance between the top of any horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1 $\frac{3}{4}$ inches (44 mm) in width. Where there are decorative cutouts within the vertical members, spacing within the cutouts shall not exceed 1 $\frac{3}{4}$ inches (44 mm) in width.
5. Where the fence is composed of horizontal and vertical members and the distance between the top of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within the vertical members, spacing within the cutouts shall not exceed 1 $\frac{3}{4}$ inches (44 mm) in width.
6. Maximum mesh size for chain link fences shall be 1 $\frac{1}{4}$ inch square unless the fence is provided with slates fastened at the top or the bottom, which reduces the openings to not more than 1 $\frac{3}{4}$ inches (44 mm).

7. Where the fence is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than 1¼ inches (44 mm).
8. Access gates shall comply with 1 through 7 above, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the swimming pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall be a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate the release mechanism and openings shall comply with the following:
 - a. The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate, and
 - b. The gate and fence shall have no opening greater than ½-inch (13 mm) within 18 inches (457 mm) of the release mechanism.
9. Where a wall of a dwelling services as part of the barrier, one of the following conditions shall be met:
 - a. The swimming pool shall be equipped with a powered safety cover in compliance with ASTM ES 13-89; or
 - b. All doors with direct access to the swimming pool through that wall shall be equipped with an alarm, which produces an audible warning when the door and its screen, if present, are opened. The alarm shall sound continuously for a minimum of 30 seconds immediately after the door is opened and be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset. The alarm system shall be equipped with a manual means, such as touch pad or switch, to temporarily deactivate the alarm for a single opening. Such deactivation shall last not more than 15 seconds. The deactivation switch shall be located at least 54 inches (1372 mm) above the threshold of the door; or
 - c. Other means of protection, such as self-closing with self-latching devices, which are approved by the Building Department, shall be acceptable so long as the degree of protection afforded is not less than the protection afforded by the previously described methods.
10. Where an aboveground swimming pool barrier is mounted on top of the swimming pool structure, the means of access is a ladder or steps, then
 - a. The ladder or steps shall be capable of being secured, locked or removed to prevent access. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch (102 mm) diameter sphere; or
 - b. The ladder or steps shall be surrounded by a fence or barrier, which meets the requirements of 1 through 9 above.

Fence or Barrier Exceptions: Spas or hot tubs with a safety cover, which complies with ASTM F1346, shall be exempt from the requirements to provide a barrier.

Some homeowners associations have special requirements or covenants regarding fences and swimming pools. You may want to check with your homeowners association or your closing papers prior to selecting a fence or swimming pool.

ELECTRICAL CODE REQUIREMENTS

1. Clearances from services-residential swimming pools, spas and hot tubs shall be located so that there is at least a 10 foot (3048 mm) horizontal clearance from the edge of the pool to any overhead power line and at least 5 foot (1524 mm) horizontal clearance from the edge of the pool to any underground electrical wiring.
2. General purpose receptacle: At least one Ground Fault Circuit interrupter (G.F.I.) protected receptacle, 125-volt, 15- or 20-ampere receptacle shall be located between 6 and 20 feet (1829 mm to 6096 mm) from the inside wall of the swimming pool at a height of not more than 6 feet 6 inches (1981 mm) above the swimming pool apron. This receptacle must be on a separate circuit from the pool pump and equipment receptacle.
3. Receptacles that provide power for the water pump motors or other loads directly related to the circulation and sanitation system shall be permitted to be located between 6 feet and 10 feet (1829 mm to 3048 mm) from the inside walls or the pool and shall be single outlets and of the locking and grounding type. They are required to be G.F.I. protected.
4. Any 125-volt outdoor receptacle located within 20 feet (6096 mm) of the inside wall of the swimming pool must be G.F.I. protected.
5. Switches (lights, timer, etc.) shall not be located within 5 feet (1524 mm) horizontally of the inside wall of the swimming pool unless separated from the swimming pool by a fence or wall.
6. An accessible power disconnecting means (for equipment associated with the swimming pool) shall be provided and located within sight of the swimming pool, not closer than 5 feet (1524 mm) from the inside wall of the swimming pool.

Note: This is informational only and DOES NOT contain all requirements for construction.

Contact J.U.L.I.E., 811, prior to digging.

By way of signature below, I, being the owner/or agent applying for a Residential Swimming Pool, certify that I have read the requirements, understand their content and will abide by the specifications.

SIGNATURE OF OWNER/AGENT:

PRINT NAME:

DATE:

The issuance of a Residential Swimming Pool permit does not relieve the permit holder from compliance with the relevant ordinances, codes, laws, covenants, or restrictions of record applicable to subject property.