



Village of Elburn
Building & Zoning

112 N. Main Street
Elburn, IL 60119
(630) 365-5061
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www.elburn.il.us

General Requirements for Swimming Pools:

The information contained herein shall overrule anything that might not have been indicated on plan review.

Inspections Required:

1. Post hole (if a deck surrounds an aboveground pool)
2. Deck frame (if a deck surrounds an aboveground pool)
3. Bonding (if a concrete slab surrounds an inground pool)
4. Trench (see included table regarding minimum burial depths)
5. Final

It is the responsibility of the homeowner/contractor to arrange to have all underground utilities located prior to any digging. Please contact J.U.L.I.E. (Joint Utility Location Information for Excavators) @ (800) 892-0123.

Receptacles that provide power for water-pump motors or other loads directly related to the circulation and sanitation system shall be permitted to be located between five feet (5') and ten feet (10') from the inside walls of pools and, where so located, shall be single and of the locking and grounding type and shall be protected by ground-fault circuit interrupters. Other receptacles on the property shall be located not less than ten feet (10') from the inside walls of pools. All receptacles located within twenty feet (20') of the inside walls of pools, spas and hot tubs shall be protected by a ground-fault circuit-interrupter (GFCI). The same is true for lighting fixtures and outlets.

An accessible disconnecting means shall be provided and located within sight from all pools, and shall be located not less than five feet (5') from the inside walls of the pool.

The following parts shall be bonded together:

1. All metallic parts of the pool including the reinforcing metal
2. All forming shells and mounting brackets of no-niche fixtures (except where a listed low-voltage lighting system is used that does not require bonding).
3. All metal fittings within or attached to the pool

4. Metal parts of electrical equipment associated with the pool
5. Metal-sheathed cables and raceways, metal piping and all fixed metal parts that are within five feet (5') horizontally of the inside walls of the pool, and that are within twelve feet (12') above the maximum water level of the pool or any observation stands, towers, platforms or diving structures, and that are not separated from the pool by a permanent barrier.

The following equipment shall be grounded:

1. Wet-niche, dry-niche and no-niche underwater lighting fixtures other than those low-voltage systems listed for the application without a grounding conductor.
2. All electrical equipment located within five feet (5') of the inside wall of the pool
3. All electrical equipment associated with the recirculating system of the pool
4. Junction boxes
5. Transformer enclosures
6. Ground-fault circuit-interrupters
7. Panel boards that are not part of the service equipment and that supply any electrical equipment associated with the pool

Underground wiring shall not be installed under or within the area extending five feet (5') horizontally from the inside walls of the pool except where the wiring is installed to supply power to pool equipment, or where space limitations prevent wiring from being routed five feet (5') from the inside walls. Where installed within five feet (5'), the wiring method shall be rigid metal conduit, intermediate metal conduit or a nonmetallic raceway system. The minimum burial depth shall be in accordance with the following table:

MINIMUM BURIAL DEPTHS

WIRING METHOD	MINIMUM BURIAL DEPTH (inches)
Rigid metal conduit	6
Intermediate metal conduit	6
Nonmetallic raceways listed for direct burial without concrete encasement	18
Other approved raceways ^a	18

For SI: 1 inch = 25.4 mm.

a. Raceways approved for burial only where concrete-encased shall require a concrete envelope not less than 2 inches in thickness.

The following parts of a pool shall not be placed under existing service-drop conductors or any other open overhead wiring; nor shall such wiring be installed above the following:

1. Pools and the areas extending ten feet (10') horizontally from the inside walls of the pool
2. Diving structures
3. Observation stands, towers and platforms

All other clearance requirements are specified in the following table:

OVERHEAD CONDUCTOR CLEARANCES

	INSULATED SUPPLY OR SERVICE DROP CABLES, 0-750 VOLTS TO GROUND, SUPPORTED ON AND CABLED TOGETHER WITH AN EFFECTIVELY GROUNDED BARE MESSENGER OR EFFECTIVELY GROUNDED NEUTRAL CONDUCTOR (feet)	ALL OTHER SUPPLY OR SERVICE DROP CONDUCTORS (feet)	
		Voltage to ground	
		0-15 kV	Greater than 15 to 50 kV
A. Clearance in any direction to the water level, edge of water surface, base of diving platform, or permanently-anchored raft	22	25	27
B. Clearance in any direction to the diving platform	14	17	18
C. Horizontal limit of clearance measured from inside wall of the pool	This limit shall extend to the outer edge of the structures listed in Rows (A) and (B) above but not less than 10 feet.		

For SI: 1 foot = 304.8 mm.

Barriers

A pool is defined as any structure intended for swimming, recreational bathing or wading that contains water over ~~Barriers~~. This includes in-ground, above-ground and on-ground pools, hot tubs, spas and fixed-in-place wading pools. A forty-eight inch (48") barrier is required around all pools. If a fence is used, access gates shall be equipped to accommodate a locking device. Gates shall open outward away from the pool and shall be self-closing and have a self-latching device. The release mechanism shall be located on the pool side of the gate at least three inches (3") below the top of the gate. The gate and barrier shall have no opening greater than one-half inch (1/2") within eighteen inches (18") of the release mechanism. Where the wall of a dwelling serves as part of the barrier, one of the following conditions shall be met:

- The pool shall be equipped with a powered safety cover in compliance with ASTM F 1346.
- All doors with direct access to an inground pool or to a deck surrounding an aboveground pool through a wall of a dwelling shall be equipped with an alarm which produces an audible warning when the door and it's screen, if present, are opened. The alarm shall sound continuously for a minimum of thirty 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 under all conditions. The alarm system shall be equipped with a manual means, such as a touch pad or a switch, to temporarily deactivate the alarm for a single opening. Such deactivation shall last for not more than fifteen seconds. The deactivation switch or switches shall be located at least fifty-four inches (54") above the threshold of the door.

Where an aboveground pool structure is used as a barrier, or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps, the ladder or steps shall be capable of being secured, locked or removed to prevent access. Any opening created from this shall not allow the passage of a four inch (4") diameter sphere.



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Barrier Requirements for Pools

A pool is defined as any structure intended for swimming, recreational bathing or wading that contains water over 24 inches deep. This includes in-ground, above-ground and on-ground pools, hot tubs, spas and fixed-in-place wading pools. A forty-eight inch (48") barrier is required around all pools. If a fence is used, access gates shall be equipped to accommodate a locking device. Gates shall open outward away from the pool and shall be self-closing and have a self-latching device. The release mechanism shall be located on the pool side of the gate at least three inches (3") below the top of the gate. The gate and barrier shall have no opening greater than one-half inch ($\frac{1}{2}$ ") within eighteen inches (18") of the release mechanism. Where the wall of a dwelling serves as part of the barrier, one of the following conditions shall be met:

- The pool shall be equipped with a powered safety cover in compliance with ASTM F 1346.
- All doors with direct access to an inground pool or to a deck surrounding an aboveground pool through a wall of a dwelling shall be equipped with an alarm which produces an audible warning when the door and it's screen, if present, are opened. The alarm shall sound continuously for a minimum of thirty 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 under all conditions. The alarm system shall be equipped with a manual means, such as a touch pad or a switch, to temporarily deactivate the alarm for a single opening. Such deactivation shall last for not more than fifteen seconds. The deactivation switch or switches shall be located at least fifty-four inches (54") above the threshold of the door.

Where an aboveground pool structure is used as a barrier, or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps, the ladder or steps shall be capable of being secured, locked or removed to prevent access. Any opening created from this shall not allow the passage of a four inch (4") diameter sphere.