

2021 INTERNATIONAL SWIMMING POOL AND SPA CODE

ONGROUND STORABLE POOL

A pool that can be disassembled for storage or transport. This includes portable pools with flexible or nonrigid walls that achieve their structural integrity by means of uniform shape, a support frame, or a combination thereof, and that can be disassembled for storage or relocation. A pool intended for use that is accessory to a residential setting and available only to the household and its guests .that is capable of containing water more than 24" deep.

Section 701 General

701.1 Scope

This chapter describes certain criteria for the design, manufacturing, and testing of on ground storable pools intended for residential use. This includes portable pools with flexible or nonrigid side walls that achieve their structural integrity by means of uniform shape, support frame or a combination thereof, and that can be disassembled for storage or relocation. This chapter includes what has been commonly referred to in past standards or codes as onground or above-ground pools.

701.2 General

In addition to the requirements of this chapter, onground storable residential swimming pools shall comply with the requirements of Chapter 3.

302.1 Electrical

Electrical requirements for aquatic facilities shall be in accordance with the 2020 NFPA 70 portion of the 2022 Connecticut State Building Code.

Exception: Internal wiring for portable residential spas and portable residential exercise spas.

303.1.2 Time Switches

Time switches or other control methods that can automatically turn off and on heaters and pump motors according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches and shall be in compliance with this section.

305.5 Onground Residential Pool Structure as a Barrier

An onground residential pool wall structure or a barrier mounted on top of an onground residential pool wall structure shall serve as a barrier where all of the following conditions are present:

1. Where only the pool wall serves as the barrier, the bottom of the wall is on grade, the top of the wall is not less than 48 inches above grade for the entire perimeter of the pool, the wall complies with the requirements of Section 305.2 and the pool manufacturer allows the wall to serve as a barrier.
2. Where a barrier is mounted on top of the pool wall, the top of the barrier is not less than 48 inches above grade for the entire perimeter of the pool, and the wall and the barrier on top of the wall comply with the requirements of Section 305.2.
3. Ladders or steps used as means of access to the pool are capable of being secured, locked, or removed to prevent access except where the ladder or steps are surrounded by a barrier that meets the requirements of Section 305.
4. Openings created by the securing, locking or removal of ladders and steps do not allow the passage of a 4-inch sphere.
5. Barriers that are mounted on top of onground residential pool walls are installed in accordance with the pool manufacturer's instructions.

323.4 Pool Alarm

Pursuant to section 29-265a of the Connecticut General Statutes, no building permit shall be issued for the construction or substantial alteration of a residential swimming pool at a residence occupied by, or being built for, one or more families unless a pool alarm is installed with the swimming pool. As used in this section, "pool alarm" means a device that emits a sound of at least 50 decibels when a person or an object weighing 15 pounds or more enters the water in a swimming pool.

701.4 Identification

For onground storable residential pools with a vinyl liner, the manufacturer's name and the liner identification number shall be affixed to the liner. For onground storable residential pools without a liner, the manufacturer's name and identification number shall be affixed to the exterior of the pool structure.

701.5 Installation

Onground storable pools shall be installed in accordance with the manufacturer's instructions.

Section 702 Ladders and Stairs

702.1 Ladders and Stairs

Pools shall have a means of entry and exit consisting of not less than one ladder or a ladder and staircase combination.

702.2 Type A and Type B Ladders

Type A, double access, and Type B, limited access, A-frame ladders shall comply with Sections 702.1 through 702.2.7. See Figure 702.2.



FIGURE 702.2
TYPICAL A-FRAME LADDER, TYPES A AND B

702.2.1 Barrier Required

Ladders in the pool shall have a physical barrier to prevent children from swimming through the riser openings or behind the ladder.

Exception: barriers for ladders shall not be required where the ladder manufacturer provides a certification statement that the ladder complies with the ladder entrapment test requirements of APSP 4.

702.2.2 Platform

Where an A-frame ladder has a platform between the handrails, the platform shall have a width of not less than 12 inches and a length of not less than 12 inches. The platform shall be at or above the highest ladder tread. The walking surface of the platform shall be slip resistant.

702.2.3 Handrails or Handholds

A-frame ladders shall have two handrails or handholds that serve all treads. The height of the handrails and handholds shall be not less than 20 inches above the platform or uppermost tread, whichever is higher.

702.2.4 Diameter

The outside diameter of handrails and handholds shall be not less than 1 inch and not greater than 1.9 inches.

702.2.5 Clear Distance

The clear distance between ladder handrails shall be not less than a space of 12 inches.

702.2.6 Treads

Ladder treads shall have a horizontal uniform depth of not less than 2 inches.

702.2.7 Riser Height

Risers, other than the bottom riser, shall be of uniform height that is not less than 7 inches and not greater than 12 inches. The bottom riser height shall be not less than 7 inches and not greater than 12 inches. The vertical distance from the platform or top of the pool structure to the uppermost tread shall be the same as the uniform riser heights.

702.3 Type C Staircase Ladders (Ground to Deck)

Type C staircase ladders shall comply with Sections 702.3.1 through 702.3.6. See Figure 702.3.



FIGURE 702.3
TYPICAL STAIRCASE LADDER, TYPE C

702.3.1 Handrails or Handholds

Staircase ladders shall have not less than two handrails or handholds that serve all treads. The height of the handrails and handholds shall be not less than 20 inches above the platform or uppermost tread, whichever is higher.

702.3.2 Diameter

The outside diameter of handrails and handholds shall be not less than 1 inch and not greater than 1.9 inches.

702.3.3 Treads

Ladder treads shall have a horizontal uniform depth of not less than 4 inches.

702.3.4 Riser Height

Risers, other than the bottom riser, shall be of uniform height that is not less than 7 inches and not greater than 12 inches (305 mm). The bottom riser height shall be not less than 7 inches and not greater than 12 inches. The vertical

distance from the platform or top of the pool structure to the uppermost tread shall be the same as the uniform riser heights.

702.3.5 Top Step

The top step of a staircase ladder shall be flush with the deck or 7 inches to 12 inches below the deck level.

702.3.6 Width

Steps shall have a minimum unobstructed width of 19 inches between the side rails.

702.4 Type D In-Pool Ladders Type D in pool ladders shall be in accordance with Sections 702.4.1 through 702.4.7. See Figure 702.4.

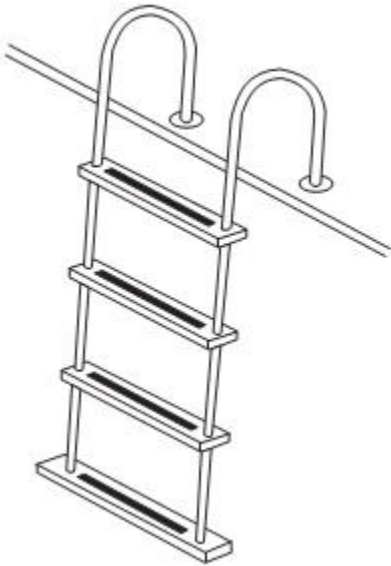


FIGURE 702.4
TYPICAL IN-POOL LADDER, TYPE D

702.4.1 Clearance

There shall be a clearance of not less than 3 inches and not greater than 6 inches between the pool wall and the ladder.

702.4.2 Handrails or Handholds

Ladders shall be equipped with two handrails or handholds that extend above the platform or deck not less than 20 inches.

702.4.3 Clear Distance

The clear distance between ladder handrails shall be not less than 12 inches.

702.5 Type E Protruding In-Pool Stairs If using this method of entry please inquire as to code requirements.

702.6 Type F Recessed In-Pool Stairs If using this method of entry please inquire as to code requirements.

Section 703 Decks General

Decks provided by the pool manufacturer shall be installed in accordance with the manufacturer's instructions. Decks fabricated on-site shall be in accordance with the International Residential Code.

Section 704 Circulation System General

A circulation system consisting of pumps, hoses, tubing, piping, return inlets, suction outlets, filters and other related equipment that provides for the circulation of water throughout the pool shall be located so that such items cannot be used by young children as a means of access to the pool.

Section 705 Safety Signs

705.1 Signs to Be Installed Prior to Final Inspection

Safety signage such as "NO DIVING" signs and other safe use instruction signs that are provided by the pool and ladder manufacturer shall be posted in accordance with the manufacturer's instructions prior to final inspection.

705.2 Safety Signs for Ladders

Safety signage for ladders shall be in accordance with Sections 705.2.1 through 705.2.3.2.

705.2.1 A-Frame Ladders

Safety signage for A-frame ladders shall be in accordance with Sections 705.2.1.1 through 705.1.4.1. The words on the signage shall be readable by persons standing in the pool and standing outside of the pool as applicable for the required location of each sign.

705.2.1.1 No Diving Warning

A-frame ladders shall have the following words posted on the in-pool side of the ladder and on the pool entry side of the ladder: "NO DIVING." The location of the words shall be above the elevation of the design water level of the pool.

705.2.1.2 Entrapment Warning

A-frame ladders shall have the following words posted on the pool side of the ladder: "TO PREVENT ENTRAPMENT OR DROWNING DO NOT SWIM THROUGH, BEHIND, OR AROUND LADDER."

705.2.1.3 Type A, A-Frame Ladders

Type A double access A-frame ladders shall have the following words posted on the ladder: "REMOVE AND SECURE LADDER WHEN POOL IS NOT OCCUPIED."

705.2.1.4 Type B, A-Frame Ladders

Type B limited access A-frame ladders shall have the following words posted on the ladder: "SECURE LADDER WHEN POOL IS NOT OCCUPIED."

705.2.1.4.1 Swing Up or Slide Up Secured Ladders

Type B limited access A-frame ladders that utilize swing-up or slide-up sections for limiting access to the pool shall have the following words posted on the ladder as applicable for the type of securing method:

1. "WHEN POOL IS NOT OCCUPIED, SWING UP AND SECURE."
2. "WHEN POOL IS NOT OCCUPIED, LIFT OFF."
3. "WHEN POOL IS NOT OCCUPIED, SLIDE UP AND SECURE."

705.2.2 Type C Staircase Ladders

Type C staircase ladders that swing up to limit access to the pool or that are removed to limit access to the pool shall have the following words posted on the ladder: "WHEN NOT IN USE SWING UP AND SECURE OR REMOVE."

705.2.3 Type D In-Pool Ladder

Safety signage for Type D in-pool ladders shall be in accordance with Sections 705.2.3.1 and 705.2.3.2. The words on the signage shall be readable by persons standing in the pool or standing outside the pool as applicable for the required location of each sign.

705.2.3.1 No Diving Warning

Type D in-pool ladders shall have the following words posted on the in-pool side of the ladder and on the pool entry side of the ladder: "NO DIVING." The location of the words shall be above the elevation of the design water level of the pool.

705.2.3.2 Entrapment Warning

Type D in-pool ladders shall have the following words posted on the ladder: "WARNING: TO PREVENT ENTRAPMENT OR DROWNING, DO NOT SWIM THROUGH, BEHIND, OR AROUND LADDER."

Substitute House Bill No. 5070

Public Act No. 99-140

An Act Concerning Alarms for New Swimming Pools.

Be it enacted by the Senate and House of Representatives in General Assembly convened:

(NEW) (a) As used in this section, "pool alarm" means a device which emits a sound of at least fifty decibels when a person or an object weighing fifteen pounds or more enters the water in a swimming pool.

(b) No building permit shall be issued for the construction or substantial alteration of a swimming pool at a residence occupied by, or being built for, one or more families unless a pool alarm is installed with the swimming pool.