

SWIMMING POOLS

**Town of Wilton
Building Department**



**Text and Illustrations
Section AG105**

The drawings contained in this brochure pertain to Appendix G of the 2009 International Residential Code along with the 2014 Amendment to the Connecticut Supplement. These drawings are for illustration purposes only. The written code text shall apply.

Guidelines for Residential Swimming Pools, Spas and Hot Tubs

State of Connecticut Building Code Appendix G

AG105.1 Application. The Provisions of this chapter shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools, spas and hot tubs.

AG105.2 Outdoor swimming pool: An outdoor private swimming pool, including an in-ground, above ground or on-ground pool, hot tubs and spas shall be provided with a barrier which shall comply with the following:

1. The top of the barrier shall be at least **48 inches (1219 mm)** above grade measured on the side of the barrier that faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be **2 inches (51 mm)** measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an above ground pool, the barrier may be at ground level, such as the pool structure, or shall be mounted on top of the pool structure. Where the barrier is mounted on top of the 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 barrier shall not allow passage of a **4 inch (102 mm) diameter sphere**.
3. Solid barriers that do not have openings, such as masonry or stone walls, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry *joints*.
4. Where the barrier is composed of a horizontal and vertical members and the distance between the tops of the 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 **1-3/4 inches (44 mm)** in width. Where there are Decorative cutouts within vertical or horizontal members, spacing within the cutouts shall not exceed **1-3/4 inches (44 mm) in width**.
5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is **45 inches (1143 mm)** or more, spacing between the vertical members shall not exceed **4 inch (102 mm) diameter sphere**. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed **1-3/4 inches (44 mm) in width**.
6. Maximum mesh size for chain link fences shall be **2-1/4 inches (32 mm) square** unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than **1-3/4 inches (44 mm)**.
7. Where the barrier is composed of diagonal members, such as lattice fence, the maximum opening formed by the diagonal members shall not be more than **1-3/4 inches (44 mm)**.

8. Access gates shall comply with the requirements of Section **AG105.2, Items 1 through 7** and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have 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:

8.1 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**

8.2 The gate and barrier shall not have an opening greater than **½ inch (13 mm) within 18 inches (457 mm)** of the release mechanism.

9. Where a wall of a *dwelling unit* serves as part of the barrier one of the following shall be met:

9.1 The pool shall be equipped with a power safety cover in compliance with ASTM F 1346-91; or

9.2 Doors with direct access to the pool through that wall shall be equipped with an alarm, which produces an audible warning when the door and/or its screen, if present, are opened. The alarm shall be listed and labeled in accordance with UL 2017. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door;

9.3 Other means of protection, such as self-closing doors with self-latching devices, which are *approved* by the governing body, shall be acceptable as long as the degree of protection afforded is not less than the protection afforded by Item 9.1 or 9.2 described above.

10 Where an above-ground 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 surrounded by a barrier which meets the requirements of ***Section AG105.2, Items 1 through 9.***

AG105.3 Indoor swimming pool : All walls surrounding an indoor private swimming pool shall comply with **Section AG105.2, Item 9.**

AG105.4 Prohibited locations: Barriers shall be located so as to prohibit permanent structures, *equipment* or similar objects from being used to climb them.

AG105.5 Barrier exceptions: Spas or hot tubs with safety cover which complies with ASTM F 1346, as listed in Section AG107, shall be exempt from the provisions of this appendix.

AG105.6 Temporary enclosure: A temporary enclosure shall be installed prior to the electrical bonding inspection of any in-ground swimming pool unless the permanent barrier specified in Section AG105.2 is in place prior to the commencement of the installation. The temporary enclosure shall be a minimum of 4 feet (1219 mm) in height, shall have no openings that will allow passage of a 4-inch sphere and shall be equipped with a positive latching device on any openings.

AG105.7 Pool alarm. Pursuant to Section 29-265a of the Connecticut General Statutes, no building permit shall be issued for the construction or substantial alterations 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. As used in this section “pool alarm” means a device which 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.

AG106.1 General. Suction outlets shall be designed and installed in accordance with ANSI/ASP-7.

Exception: Hot tubs and portable spas shall be exempt from this requirement.

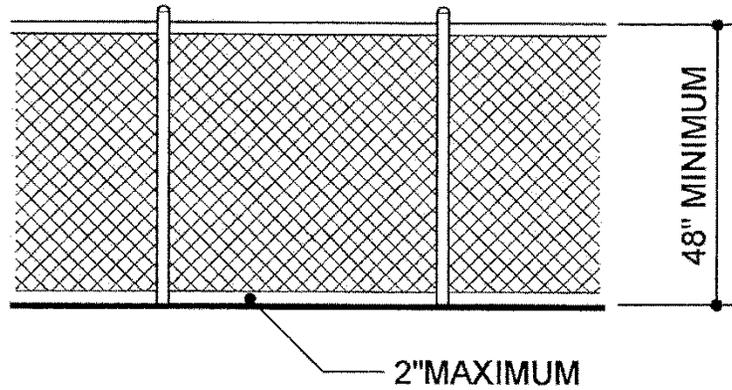
I HAVE READ AND UNDERSTANT THE ABOVE CODE REQUIREMENTS AND AGREE TO INSTALL THE POOL FENCE AND REQUIRED POOL ALARM ON MY PROPERTY IN COMPLIANCE WITH THE ABOVE.

SIGNATURE OF HOMEOWNER _____

ADDRESS OF HOMEOWNER _____

ADDRESS OF PROPERTY WHERE POOL IS BEING INSTALLED _____

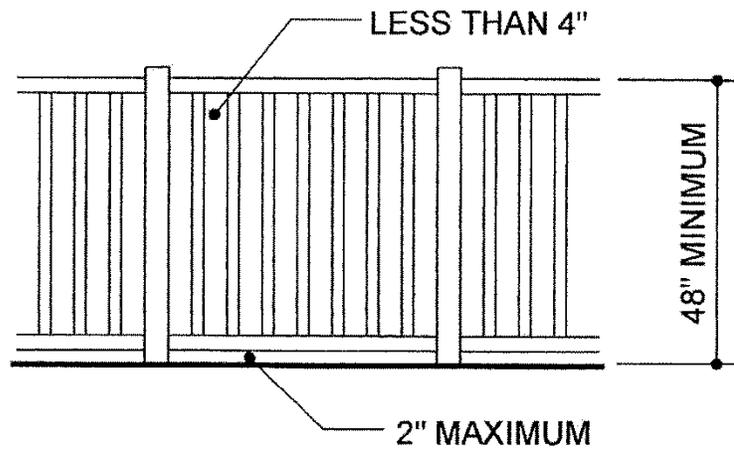
DATE _____



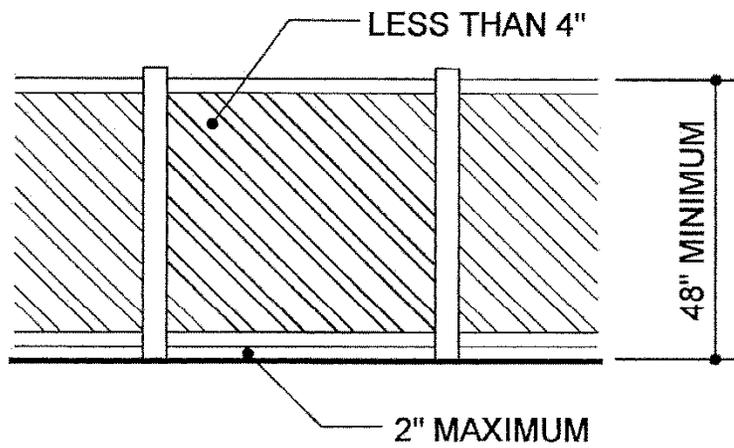
ELEVATION

OUTSIDE OF THE POOL ENCLOSURE

SECTION AG105.2, ITEM 1

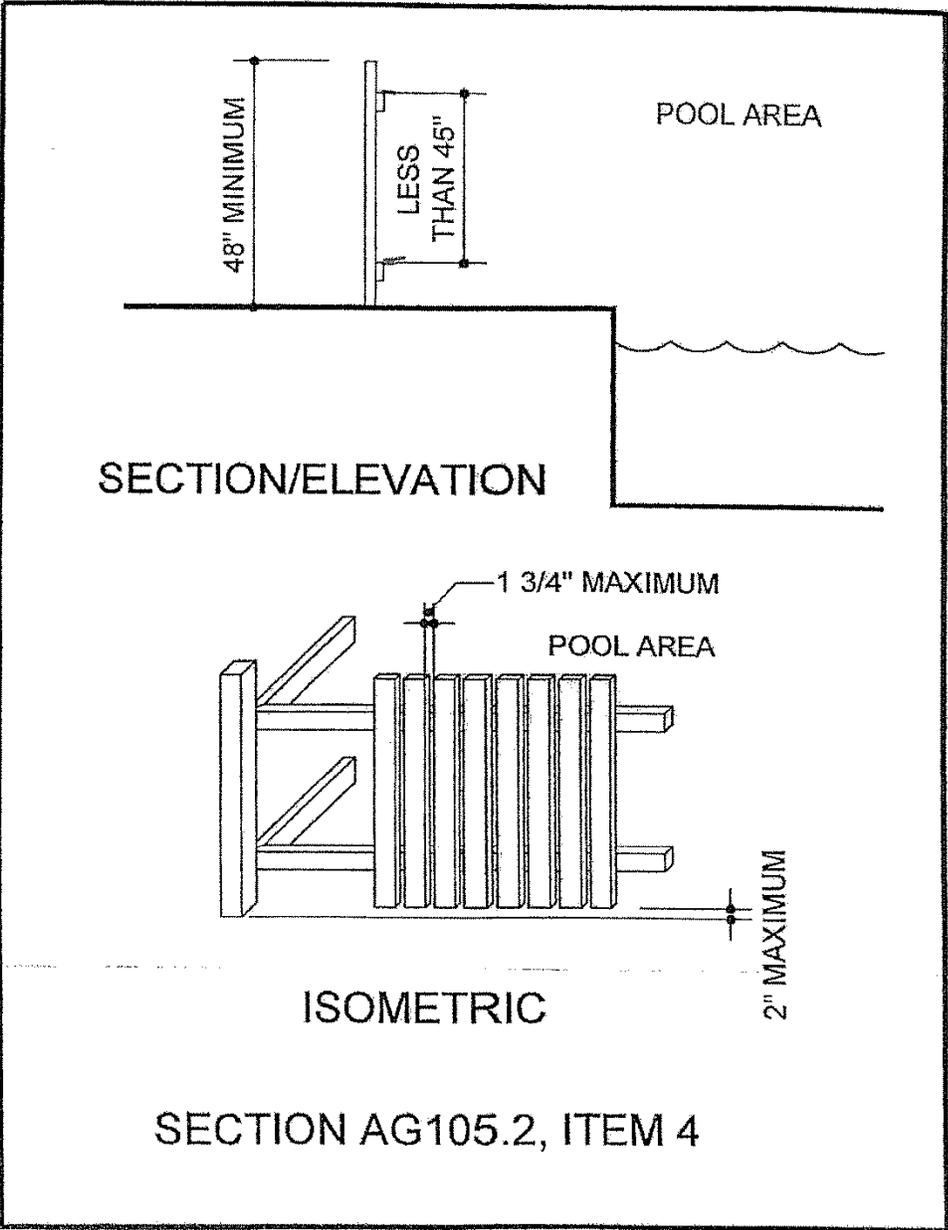


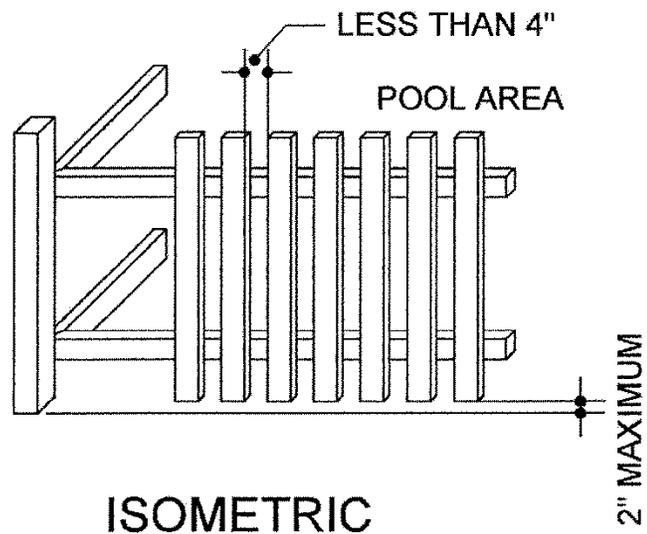
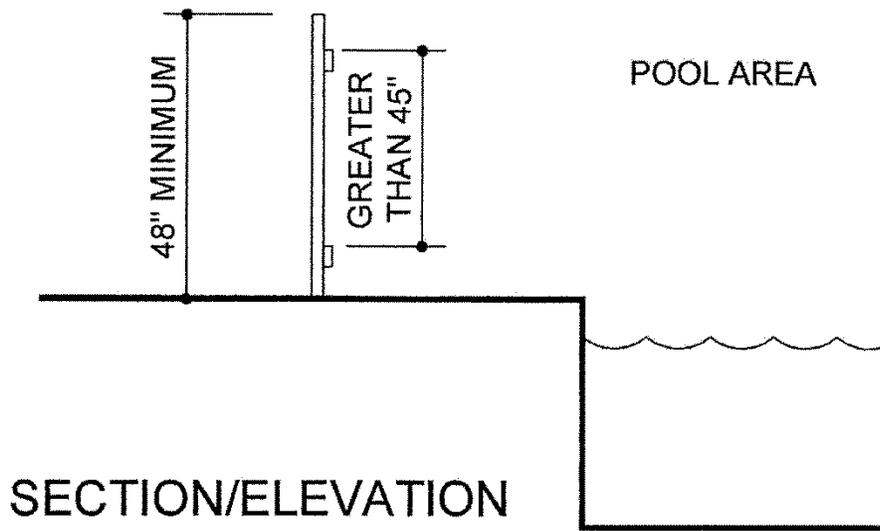
ELEVATION



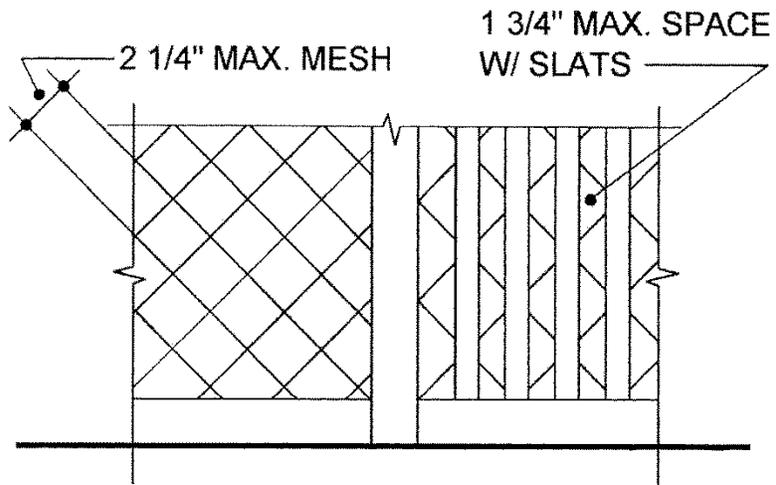
ELEVATION

SECTION AG105.2, ITEM 2

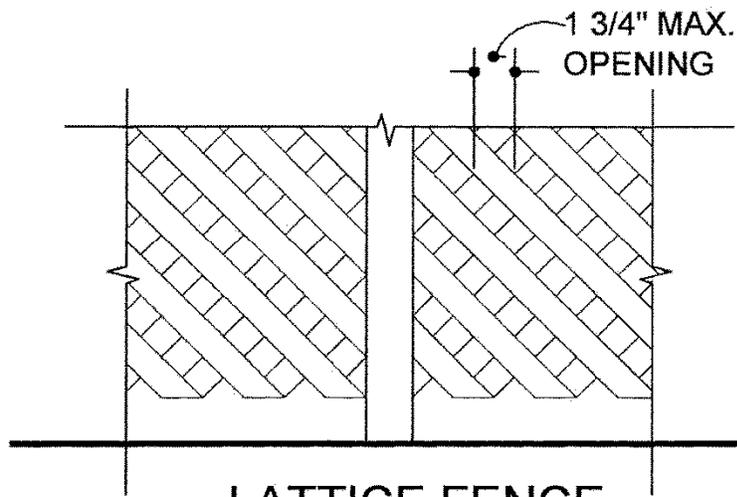




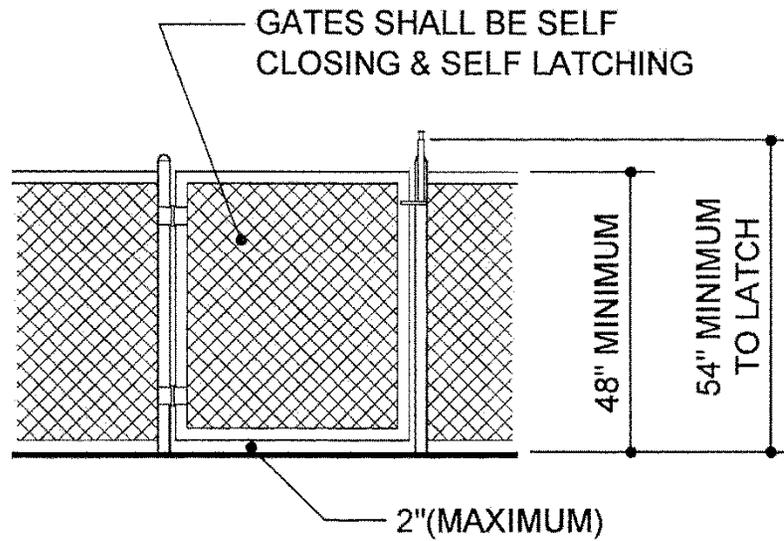
SECTION AG105.2, ITEM 5



CHAIN LINK FENCE
SECTION AG105.2, ITEM 6



LATTICE FENCE
SECTION AG105.2, ITEM 7



ELEVATION

PEDESTRIAN ACCESS GATE

SECTION AG105.2, ITEM 8