

§ 300-53.16. Swimming pools.

A. Noncommercial aboveground or in-ground swimming pools may be permitted subject to the issuance of a permit by the Code Enforcement Officer, who, when giving such approval, shall certify that the following regulations are complied with:

- (1) All swimming pools shall meet the minimum side and rear yard requirements of the district in which they are located.
- (2) A plot plan indicating elevations with dimensions drawn to scale shall be submitted for approval. The plot plan shall also show:
 - (a) Pool dimensions, depth and volume in gallons.
 - (b) Type and size of filtering system.
 - (c) Location of filtering system and motor.

B. Safeguards: aboveground pool. Any artificial pool or structure intended for wading, bathing or swimming purposes which is so constructed as to be above grade and which has a ladder or steps in order to obtain access to said pool shall be subject to the requirements that whenever said pool is not attended by a person of suitable age, that said steps or ladder to obtain access to said pool shall be removed, raised or screened so that a person may not gain access to said pool.

C. Any aboveground swimming pool whose structure is less than four feet in height must be safeguarded with a permanent protective fence, said fence to be installed so as to encompass the entire perimeter of the swimming pool. Said fence shall be structurally sound, durable and must be maintained in such a condition. Said fence shall be a minimum of 48 inches in height and shall be of wooden or metal construction. All openings in said fence shall be so constructed as to prohibit the passage of a two-inch-diameter sphere. The entrance gate or gates shall have a self-latching device and, except for ingress and egress to and from the swimming pool area, must be kept closed at all times.

D. Safeguards: in-ground pool. No person or persons, association or corporation shall maintain an in-ground swimming pool, as defined herein, without first safeguarding such swimming pool with a permanent protective fence, said fence to be installed so as to encompass the entire perimeter of the swimming pool. Said fence shall be structurally sound, durable and must be maintained in such condition. Said fence shall be a minimum of 48 inches in height. All openings in said fence shall be so constructed as to prohibit the passage of a two-inch-diameter sphere. The entrance gate or gates shall have a self-latching device and, except for ingress and egress to and from the swimming pool area, must be kept closed at all times.

APPENDIX G

SWIMMING POOLS, SPAS AND HOT TUBS

SECTION G101 GENERAL

G101.1 General. The provisions of this appendix shall control the design and construction of swimming pools, spas and hot tubs installed in or on the lot of a one- or two-family dwelling.

SECTION G102 DEFINITIONS

G102.1 General. For the purposes of these requirements, the terms used shall be defined as follows and as set forth in Chapter 2.

ABOVE-GROUND/ON-GROUND POOL. See "Swimming pool."

BARRIER PERMANENT. A fence, wall, building wall or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

BARRIER TEMPORARY. An approved temporary fence, permanent fence, the wall of a permanent structure, any other structure, or any combination thereof that prevents access to the swimming pool by any person not engaged in the installation or construction of the swimming pool during its installation or construction.

HOT TUB. See "Swimming pool."

IN-GROUND POOL. See "Swimming pool."

RESIDENTIAL. That which is situated on the premises of a detached one- or two-family dwelling or a one-family townhouse not more than three stories in height.

SPA, NONPORTABLE. See "Swimming pool."

SPA, PORTABLE. A nonpermanent structure intended for recreational bathing, in which all controls, water-heating and water-circulating equipment are an integral part of the product.

SUBSTANTIAL DAMAGE. For the purpose of determining compliance with the pool alarm provisions of this appendix, damage of any origin sustained by a swimming pool whereby the cost of restoring the swimming pool to its before-damaged condition would equal or exceed 50 percent of the market value of the swimming pool before the damage occurred.

SUBSTANTIAL MODIFICATION. For the purpose of determining compliance with the pool alarm provisions of this appendix, any repair, alteration, addition or improvement of a swimming pool, the cost of which equals or exceeds 50 percent of the market value of the swimming pool before the

improvement or repair is started. If a swimming pool has sustained substantial damage, any repairs are considered substantial modification regardless of the actual repair work performed.

SWIMMING POOL. Any structure, basin, chamber or tank which is intended for swimming, diving, recreational bathing or wading and which contains, is designed to contain, or is capable of containing water more than 24 inches (610 mm) deep at any point. This includes in-ground, above-ground and on-ground pools; indoor pools; hot tubs; spas; and fixed-in-place wading pools.

SWIMMING POOL, INDOOR. A swimming pool which is totally contained within a structure and surrounded on all four sides by the walls of the enclosing structure.

SWIMMING POOL, OUTDOOR. Any swimming pool which is not an indoor pool.

SECTION G103 SWIMMING POOLS

G103.1 In-ground pools. In-ground pools shall be designed and constructed in conformance with ANSI/NSPI-5 as listed in Section AG108.

G103.2 Above-ground and on-ground pools. Above-ground and on-ground pools shall be designed and constructed in conformance with ANSI/NSPI-4 as listed in Section AG108.

SECTION G104 SPAS AND HOT TUBS

G104.1 Permanently installed spas and hot tubs. Permanently installed spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-3 as listed in Section AG108.

G104.2 Portable spas and hot tubs. Portable spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-6 as listed in Section AG108.

SECTION G105 BARRIER REQUIREMENTS

G105.1 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.

G105.2 Temporary barriers. An outdoor swimming pool, including an in-ground, above-ground or on-ground pool, hot tub or spa shall be surrounded by a temporary barrier during installation or construction and shall remain in place until a permanent barrier in compliance with Section AG105.3 is provided.

Exceptions:

1. Above-ground or on-ground pools where the pool structure is the barrier in compliance with Section AG105.3.
2. Spas or hot tubs with a safety cover which complies with ASTM F 1346, as listed in Section AG107, provided that such safety cover is in place during the period of installation or construction of such hot tub or spa. The temporary removal of a safety cover as required to facilitate the installation or construction of a hot tub or spa during periods when at least one person engaged in the installation or construction is present is permitted.

G105.2.1 Height. The top of the temporary barrier shall be at least 48 inches (1219 mm) above grade measured on the side of the barrier which faces away from the swimming pool.

G105.2.2 Replacement by a permanent barrier. A temporary barrier shall be replaced by a complying permanent barrier within either of the following periods:

1. 90 days of the date of issuance of the building permit for the installation or construction of the swimming pool; or
2. 90 days of the date of commencement of the installation or construction of the swimming pool.

G105.2.2.1 Replacement extension. Subject to the approval of the code enforcement official, the time period for completion of the permanent barrier may be extended for good cause, including, but not limited to, adverse weather conditions delaying construction.

G105.3 Outdoor swimming pool. An outdoor swimming pool, including an in-ground, above-ground or on-ground pool, hot tub or spa shall be surrounded by 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 which 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 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-diameter (102 mm) sphere.

3. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
4. Where the barrier is composed of 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 $1\frac{3}{4}$ inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed $1\frac{3}{4}$ 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 vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within 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 a $2\frac{1}{4}$ -inch (57 mm) square unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than $1\frac{3}{4}$ inches (44 mm).
7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than $1\frac{3}{4}$ inches (44 mm).
8. Gates shall comply with the requirements of Section AG105.2, Items 1 through 7, and with the following requirements:
 - 8.1. All gates shall be self-closing. In addition, if the gate is a pedestrian access gate, the gate shall open outward, away from the pool.
 - 8.2. All gates shall be self-latching, with the latch handle located within the enclosure (i.e., on the pool side of the enclosure) and at least 40 inches (1016 mm) above grade. In addition, if the latch handle is located less than 54 inches (1372 mm) from the bottom of the gate, the latch handle shall be located at least 3 inches (76 mm) below the top of the gate, and neither the gate nor the barrier shall have any opening greater than 0.5 inch (12.7 mm) within 18 inches (457 mm) of the latch handle.
 - 8.3. All gates shall be securely locked with a key, combination or other child proof lock sufficient to prevent access to the swimming pool through such gate when the swimming pool is not in use or supervised.
9. Where a wall of a dwelling serves as part of the barrier, one of the following conditions shall be met:
 - 9.1. The pool shall be equipped with a powered safety cover in compliance with ASTM F 1346; 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 in accordance with UL 2017. The audible alarm shall activate within 7 seconds and sound continuously for a minimum of 30 seconds after the door and/or its screen, if present, are 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 touch pad or switch, to temporarily deactivate the alarm for a single opening. Deactivation shall last for not more than 15 seconds. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or

- 9.3. Other means of protection, such as self-closing doors with self-latching devices, shall be acceptable so 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:
 - 10.1. The ladder or steps shall be capable of being secured, locked or removed to prevent access; or
 - 10.2. The ladder or steps shall be surrounded by a barrier which meets the requirements of Section AG105.2, Items 1 through 9. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

G105.4 Indoor swimming pool. Walls surrounding an indoor swimming pool shall comply with Section AG105.2, Item 9.

G105.5 Prohibited locations. Barriers shall be located to prohibit permanent structures, equipment or similar objects from being used to climb them.

G105.6 Barrier exceptions. Spas or hot tubs with a safety cover which complies with ASTM F 1346, as listed in Section AG107, shall be exempt from the provisions of this appendix.

SECTION G106 ENTRAPMENT PROTECTION FOR SWIMMING POOL AND SPA SUCTION OUTLETS

G106.1 General. Suction outlets shall be designed to produce circulation throughout the pool or spa. Single-outlet systems, such as automatic vacuum cleaner systems, or multiple suction outlets, whether isolated by valves or otherwise, shall be protected against user entrapment.

G106.1.1 Compliance alternative. Suction outlets may be designed and installed in accordance with ANSI/APSP-7.

G106.2 Suction fittings. Pool and spa suction outlets shall have a cover that conforms to ANSI/ASME A112.19.8, or an

18 inch × 23 inch (457mm by 584 mm) drain grate or larger, or an approved channel drain system.

Exception: Surface skimmers

G106.3 Atmospheric vacuum relief system required. Pool and spa single- or multiple-outlet circulation systems shall be equipped with atmospheric vacuum relief should grate covers located therein become missing or broken. This vacuum relief system shall include at least one approved or engineered method of the type specified herein, as follows:

1. Safety vacuum release system conforming to ASME A112.19.17; or
2. An approved gravity drainage system.

G106.4 Dual drain separation. Single or multiple pump circulation systems have a minimum of two suction outlets of the approved type. A minimum horizontal or vertical distance of 3 feet (914 mm) shall separate the outlets. These suction outlets shall be piped so that water is drawn through them simultaneously through a vacuum-relief-protected line to the pump or pumps.

G106.5 Pool cleaner fittings. Where provided, vacuum or pressure cleaner fitting(s) shall be located in an accessible position(s) at least 6 inches (152 mm) and not more than 12 inches (305 mm) below the minimum operational water level or as an attachment to the skimmer(s).

SECTION G107 SWIMMING POOL AND SPA ALARMS

G107.1 Applicability. A swimming pool or spa installed, constructed or substantially modified after December 14, 2006, shall be equipped with an approved pool alarm.

Exceptions:

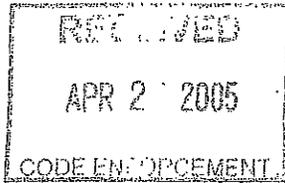
1. A hot tub or spa equipped with a safety cover which complies with ASTM F1346, as listed in Section AG109.
2. A swimming pool (other than a hot tub or spa) equipped with an automatic power safety cover which complies with ASTM F1346, as listed in Section AG109.

Pool alarms shall comply with ASTM F2208, as listed in Section AG109, and shall be installed, used and maintained in accordance with the manufacturer's instructions and this section.

G107.2 Multiple alarms. A pool alarm must be capable of detecting entry into the water at any point on the surface of the swimming pool. If necessary to provide detection capability at every point on the surface of the swimming pool, more than one pool alarm shall be provided.

G107.3 Alarm activation. Pool alarms shall activate upon detecting entry into the water and shall sound poolside and inside the dwelling.

G107.4 Prohibited alarms. The use of personal immersion alarms shall not be construed as compliance with this section.



April 15, 2005

To Whom It May Concern:

NYSEG would like to bring to your attention National Electric Safety Code (NESC) Article 234 rules regarding electrical wires and clearance to swimming pools. The applicable sections of this code are listed below:

1. Swimming pools or platforms cannot be placed closer than 10 feet (measured horizontally) to overhead triplexed electrical secondary or service wires or communication wires, unless there is a minimum vertical clearance of 22' 6" (measured from the waters edge to the height of the wires).
2. Swimming pools or platforms cannot be placed closer than 25' (measured in a straight line from the wires to the pool or platform) to overhead open wire (not triplexed) electrical secondary and service wires, or high voltage wires. If within the 25 foot zone, pools must meet a minimum vertical clearance of 25' (measured from the waters edge to the height of the wires), and platforms must meet a minimum vertical clearance of 17' (measured from the platform to the height of the wires).
3. Underground electrical wires should not be located under the pool or within the area extending five (5) feet horizontally from the inside wall of the pool.

These NESC clearances are similar to, but slightly more restrictive than the National Electric Code (NEC) clearances, and NYSEG follows the NESC clearances.

It is our request that you continue to advise any property owner seeking a building permit for a swimming pool, to be aware and to avoid any possible conflicts between swimming pool and deck installations, and overhead or underground electrical lines.

If there are any questions, the property owner should be advised to contact NYSEG well in advance of pool purchase or construction.

Thank you for your previous cooperation and for your continual assistance in this safety matter.

Sincerely,

Keith A. Lorenzetti
Director-Regional Operations
Central Region

KAL/amn
attachment

an equal opportunity employer

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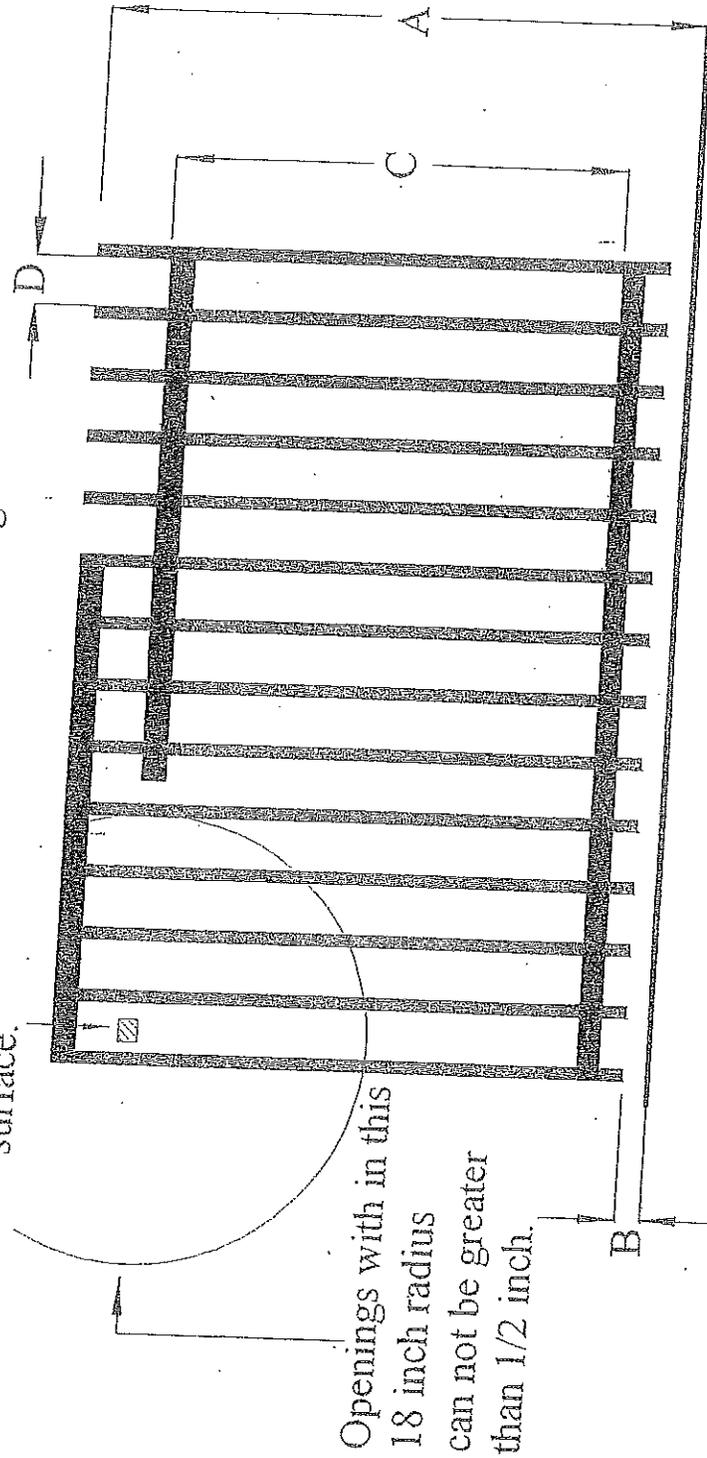


An Energy East Company

Pool Barrier Gate Example,

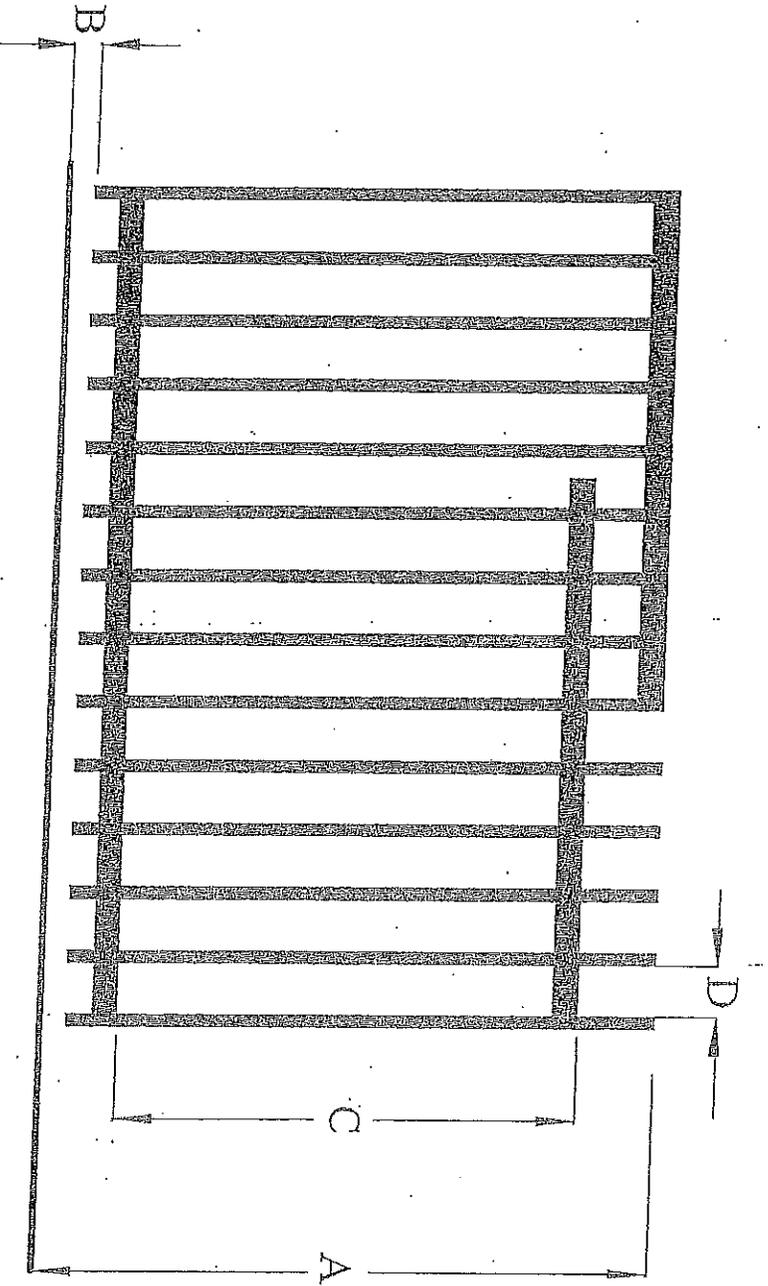
with latch release less than 54 inches above a standing surface and located on the pool side.

Latch release located a minimal of 3 inches below the top of gate and a minimal of 40 inches above standing surface.



Dimension "A" must be 48 inches minimum from a standing surface to the top of gate.
Dimension "B" may be 2 inches maximum from standing surface to the bottom of gate.
If dimension "C" is less than 45 inches, dimension "D" cannot be greater than 1-3/4 inches.
Dimension "D" can never be greater than 4 inches.

Pool Barrier Fence Example



Dimension "A" must be 48 inches minimum from a standing surface to the top of gate.
Dimension "B" may be 2 inches maximum from standing surface to the bottom of gate.
If dimension "C" is less than 45 inches, dimension "D" cannot be greater than 1-3/4 inches.
Dimension "D" can never be greater than 4 inches.

List Of Styles

More Information

Installation Info

- HOOVER FENCE CO.
- VINYL INDEX
- TRADITIONAL
- CLASSIC
- CONTEMPORARY
- SEMI-PRIVATE
- PRIVACY
- POST & RAIL
- SEARCHING

MAGNA-LATCH

MAGNETIC CHILD-SAFETY GATE LATCH

Magnetic Child-Safety Latch - Magna Latch

Some 300 children under the age of 5 drown in unattended backyard pools each year, according to the Consumer Products Safety Commission. Our hinge-and-latch combination will ensure the gate leading to your pool or spa closes and locks automatically to prevent small kids from wandering in.

The system consists of 2 parts, self-closing hinges and a magnetic gate latch which automatically locks and uses a unique opening method which makes it almost impossible for young children to open.

Many of our BOCA approved fence styles require the Magna Latch on all gates. The latch is an attractive, easy to install addition to most any style of fence and provides worry-free access control to your pool.

"In fact, the pool installer was impressed with how easy it was for me to install it by myself. It took me approximately 12 hours to install" . . . more

Read what our customers have to say!

- Highly child-resistant
- Adapts to all gates
- Magnetically triggered (no jamming or sticking)
- Fits quickly and easily
- Key Lockable
- Tested to 400,000 cycles
- 2 year warranty
- Includes regular ground shipping
- Standard Fits square post and gate frame on all ornamental and vinyl styles of fence - uses a 3/8" space between gate frame and post.
- Round post and gate frame adapter available as an extra - adjustable to fit up to 2" latch side space between the gate post and gate frame.
- Built-in lock included with key.
- **EQUALITY**



How it works:

MAGNA-LATCH gate latches are magnetically triggered safety devices that have revolutionized the safety, reliability and child-resistance of swimming pool, childcare and household gates.

The unique operating principle is brilliantly simple. As the gate swings shut, a powerful 'permanent' magnet draws a latch bolt from one housing into the other, latching it securely.

No amount of shaking, pushing or pulling can disengage the latch. The concept is so advanced it boasts international awards for design excellence.

The latch has been designed to meet strict international

2010 Energy Conservation Construction Code of New York State

403.9 Pools.

Pools shall be provided with energy-conserving measures in accordance with Sections 403.10.1 through 403.10.3.

403.9.1 Pool heaters.

All pool heaters shall be equipped with a readily accessible on-off switch to allow shutting off the heater without adjusting the thermostat setting. Pool heaters fired by natural gas or LPG shall not have continuously burning pilot lights.

403.9.2 Time switches.

Time switches that can automatically turn off and on heaters and pumps according to a preset schedule shall be installed on swimming pool heaters and pumps.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Where pumps are required to operate solar- and waste-heat-recovery pool-heating systems.

403.9.3 Pool covers.

Heated pools shall be equipped with a vapor-retardant pool cover on or at the water surface. Pools heated to more than 90°F (32°C) shall have a pool cover with a minimum insulation value of R-12.

Exception: Pools deriving over 60 percent of the energy for heating from site-recovered energy or solar energy source.