

RESIDENTIAL SWIMMING POOL SUBMITTAL GUIDE

Code Reference: 2015 International Residential Code – Chapter 42; 2015 International Swimming Pool and Spa Code and applicable edition of ANSI/NSPI -4 (Above-ground pools or ANSI/NSPI -5 (In-ground pools)

Swimming Pool Definition: Any structure intended for swimming or recreational bathing that contains water over 24 inches deep. This includes in-ground, above-ground swimming pools, hot tubs and spas.

I. Permit Application Process

When completing the permit application be sure to complete all information including the following:

- Indicate square footage of any deck surrounding above-ground pool.
- Dollar value of labor and material.
- Permit applicant must sign the permit application,
- Submit (3) site plans. (See zoning site plan requirements)
- Submit (2) sets of complete swimming pool plans and specifications including fencing for code review. (See information below based upon type of pool)

After the submitted information is reviewed and found to be code compliant the permit will be issued. The work may begin after payment of all applicable permit fees.

For all pools: Submit three (3) copies of the site plan, which show pool and deck dimensions including distances from edge of pool to property lines. Also show the locations of all existing buildings and proposed buildings (include sheds, detached garages and accessory buildings), driveways, sidewalks, gas tanks and overhead electric and communication cables. In addition, the lot area and the lot coverage must be provided in square feet. See the attached sample typical pool site plan, which includes information that must be shown on the submitted site plan as required by the zoning department.

Submit details for required fencing/barriers and pedestrian access gate latching and alarms for doors and screen doors that are part of the house pool barrier.

An additional permit fee is required when constructing a deck. Submit structural framing plan of deck and stairs adjacent to pools for code review and approval. Plans must accurately show structural framing that include footings, beam, post and joist layout, guards, stairways and handrails.

For In-Ground Pools: Submit two (2) copies of in-ground swimming pool plans, specifications, and manufacturer's information sheets indicating the following: pool dimensions, pool decks, steps and ladders, diving/sliding boards, pool heaters, and accessory buildings. Accessory buildings include shower areas, dressing rooms, pool related equipment, and storage buildings with plumbing fixtures, mechanical equipment and electrical devices.

For Above-Ground Pools: Submit two (2) copies of manufacturer's information sheets and/or manufacturer's installation instructions for above-ground prefabricated pool assemblies and pool equipment including pumps, filters, heaters, ladders.

II. Conditions to Consider that Affect Installation

- Pools with bottom drains are required to have atmospheric vacuum relief systems.
- Fencing/Barrier: 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 1³/₄ inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1³/₄ 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 1³/₄ inches (44 mm) in width.
 6. Maximum mesh size for chain link fences shall be a 2¹/₄-inch (57 mm) square unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than 1³/₄ 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 1³/₄ inches (44 mm).
 8. Access gates shall comply with the requirements of the 2015 ISPPSC, 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 have no opening larger than 1/2 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.
 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 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; or 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:

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 2015 ISPCS, 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.

- Electrical work shall be installed in accordance with the 2015 International Residential Code Chapter 42, Swimming Pools.

III. Inspection Requirements

NOTE: Swimming pools shall not be used until a code official approves the final electrical and pool inspections. A Certificate of Occupancy will be issued upon approval of all required inspections.

- **In-Ground Swimming Pools require the following inspections:**
 1. Pool reinforcing, bonding, underground conduit and pool plumbing prior to backfill.
 2. Equipotential bonding grid prior to pouring concrete around pool perimeter.
 3. Final electrical and building code inspections.
- **Above-Ground Swimming Pools require the following inspections:**
 1. Underground conduit and wiring prior to backfill.
 2. Deck post footings prior to concrete pour, if applicable.
 3. Deck framing, stairs, handrails and guards, as applicable.
 4. Final electrical and building code inspections.

III. Zoning Site Plan Requirements

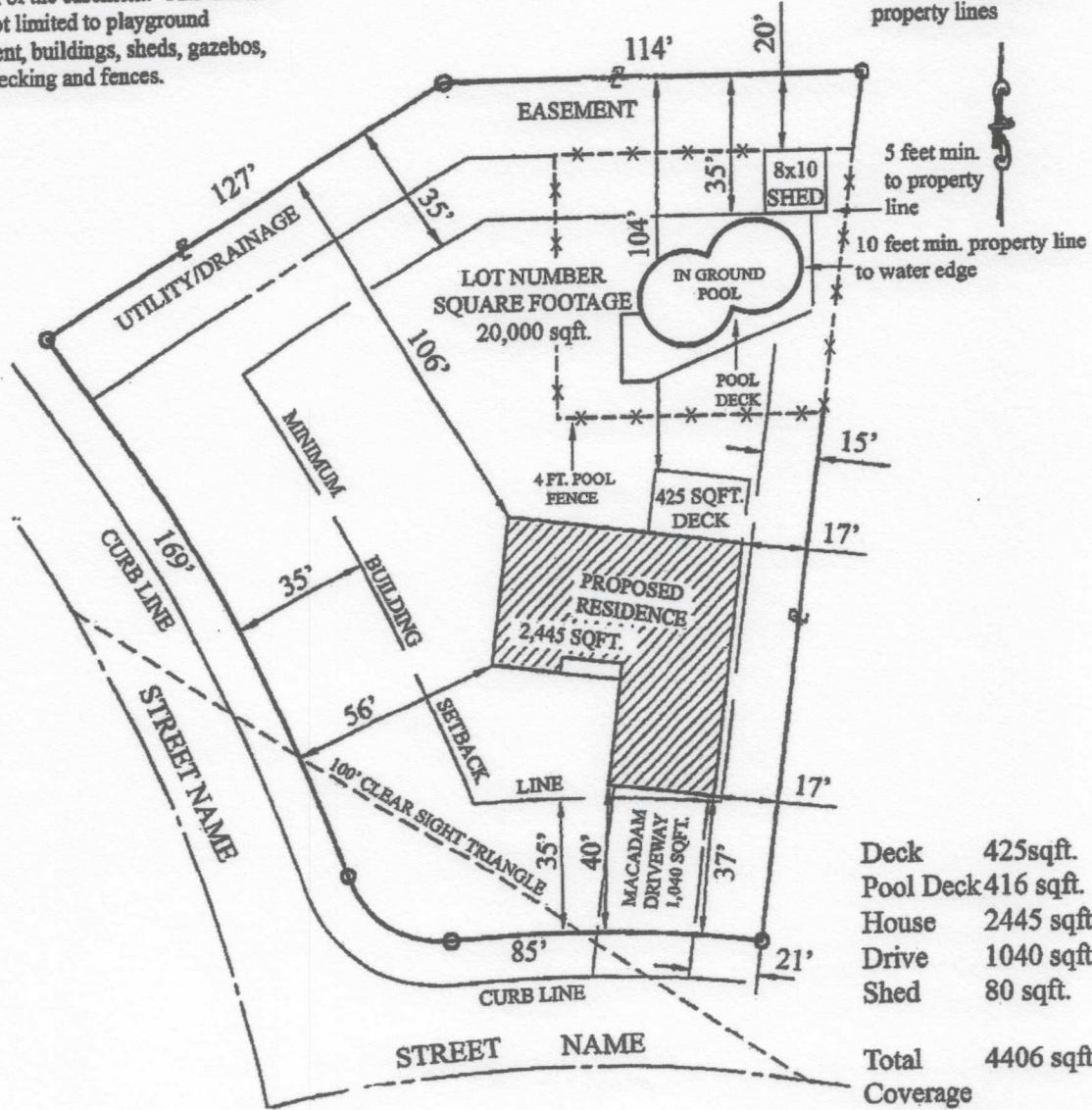
The following **must** appear on all site plans:

- Location of all property lines. Include exact length of all property lines and the size of your lot in square feet.
- Location of all existing buildings and improvements including residence, driveways, walkways, sheds, decks, patios, porches, swimming pools, garages, hot tubs, and any other buildings.
- Location of all proposed projects and other improvements, including but not limited to driveways, walkways, sheds, decks, patios, porches, swimming pools, garages, hot tubs, and any other buildings.
- Exact dimensions and square footage of all existing and proposed improvements.
- Location of all easements on the property, both public and private including the exact dimensions of the easements.
- Location of the 100-year flood plain elevation, if applicable.
- Location of all required building setback lines, public streets, on-lot septic system, wetland areas, and municipal boundaries.

Nothing shall be placed, planted, set, or put within the area of the easement that would adversely effect the function of the easement. This includes but is not limited to playground equipment, buildings, sheds, gazebos, pools, decking and fences.

Sheds may be located up to, but not into an easement

Maintain a minimum of 5 feet setback between shed and side/rear property lines



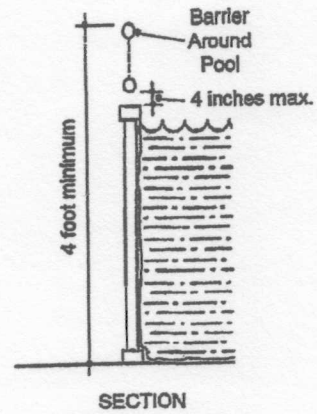
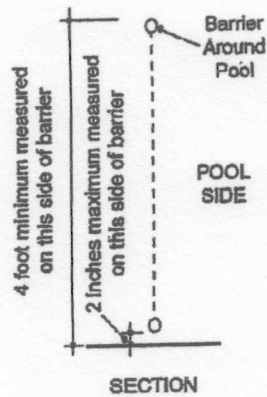
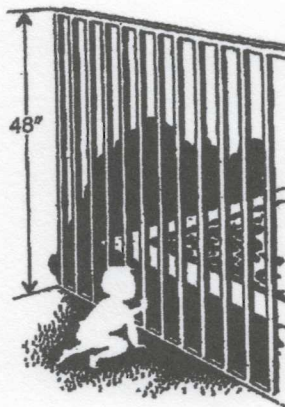
Nothing shall be placed, planted, set, or put within the area of the 100-foot clear site triangle that has the possibility of growing in excess of 30 inches or may obscure motorist vision.

Name
Address
City, State, Zip code
Home Phone Work Phone

TYPICAL POOL SITE PLAN

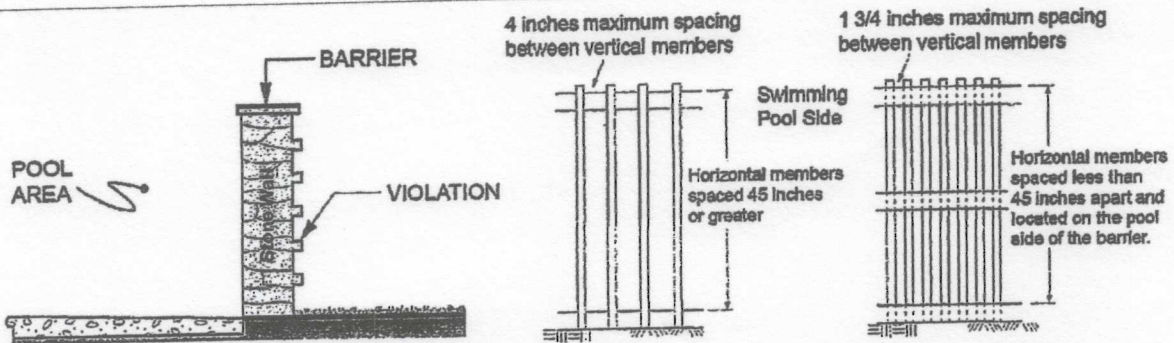
SCALE: 1" = 40'0"

International Residential Code - Appendix G Barrier Requirements



AG105.2 Outdoor Swimming Pool. Items #1 & #2

- * The top of the barrier shall be at least 48 inches above grade measured on the side of the barrier which faces away from the pool.
- * Vertical clearance between grade and bottom of barrier is 2" maximum.
- * Vertical clearance between elevated pool structure and bottom of barrier is 4" maximum.
- * Openings in barrier shall not allow the passage of a 4" sphere.

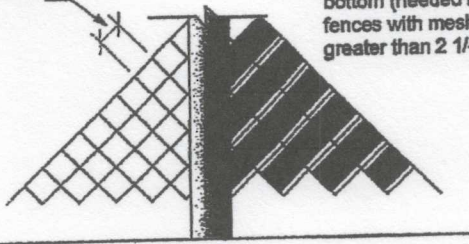


AG105.2 Outdoor Swimming Pool. Items #3, #4 & #5

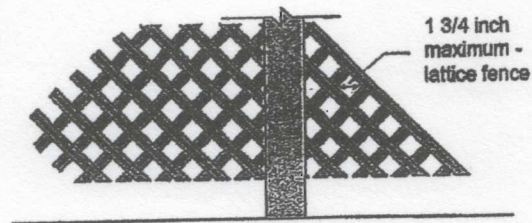
- * Solid barriers without openings shall not contain protrusions except normal tooled joints.
- * Horizontal & vertical barrier members and opening requirements.

International Residential Code - Appendix G Barrier Requirements

2 1/4 inches
Maximum Mesh
Size without
Slats

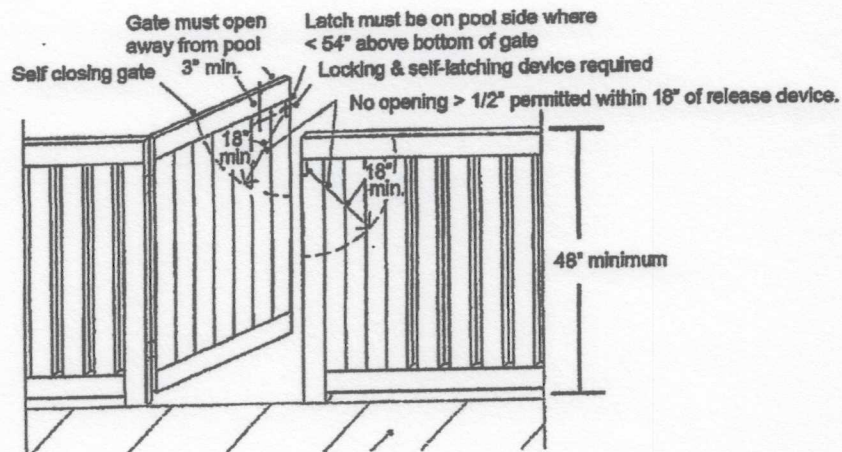


1 3/4 inch maximum
opening with slats
secured at the top or
bottom (needed in
fences with mesh size
greater than 2 1/4 inch.



AG105.2 Outdoor Swimming Pool. Items #6 & #7

- * Maximum mesh size for chain link fences shall be 2 1/4 inches square unless the fence has slats which are fastened at the top or bottom which reduce the openings to not more than 1 3/4 inches
- * 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.



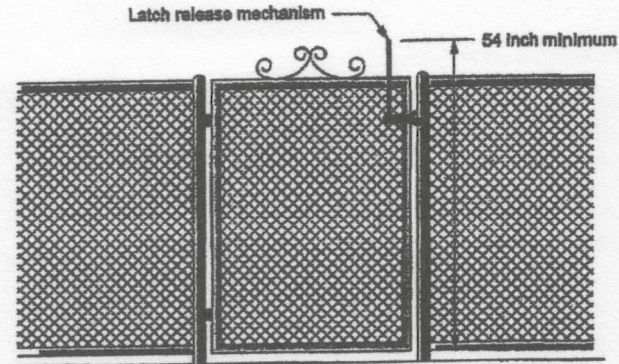
AG105.2 Outdoor Swimming Pool. Item #8.1 & 8.2

- * Access gates shall comply with all of the previous barrier requirements and shall be equipped to accommodate a locking device. Gates are to open outward away from the pool and shall be self-closing and have a self-latching device. Release mechanism shall be located 54" from the bottom of the gate or it shall conform to the above noted diagram.

International Residential Code - Appendix G Barrier Requirements

AG 105.2 Outdoor Swimming Pool
Item # 8.1 & 8.2

48" access gate with approved release mechanism located 54" above the bottom of the gate.



Glazing in walls and fences enclosing pool to be tempered safety glazing if less than 60 inches above walking surface and within 60 inches horizontally of the water's edge.

Doors providing direct access to pool shall be equipped with UL 2017 door alarms mounted 54" above the threshold of the door
OR
shall be self-closing with self-latching devices located not less than 54" above the door threshold.

Pedestrian access gates shall swing away from the pool and be self-closing and self-latching

Barriers shall not have protrusions or steps

Doors into the pool area are to be equipped with UL 2017 door alarms or they shall be self-closing with self-latching devices located at least 54" above door threshold.

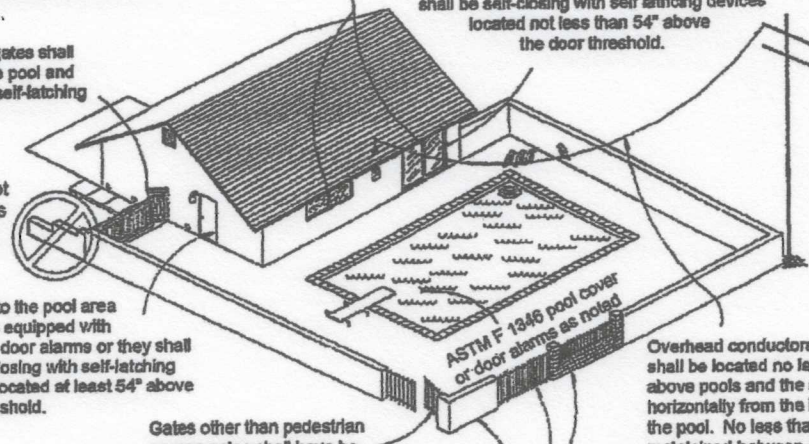
Gates other than pedestrian access gates shall have be self-closing and have a self-latching device. Release mechanism requirements same as pedestrian gates.

Minimum 48 inch high pool barrier

Overhead conductors between 0-750 Volts shall be located no less than 22.5 feet above pools and the area extending 10 feet horizontally from the inside of the walls of the pool. No less than 14.5 feet is to be maintained between overhead conductors and diving platforms.

For communication cable clearances, contact the utility provider (i.e Verizon, Comcast, etc..)

AG 105.2 Outdoor Swimming Pool. Item #9.1, 9.2, 9.3



DOOR ALARM

MADE IN THE USA

MODEL DAPT

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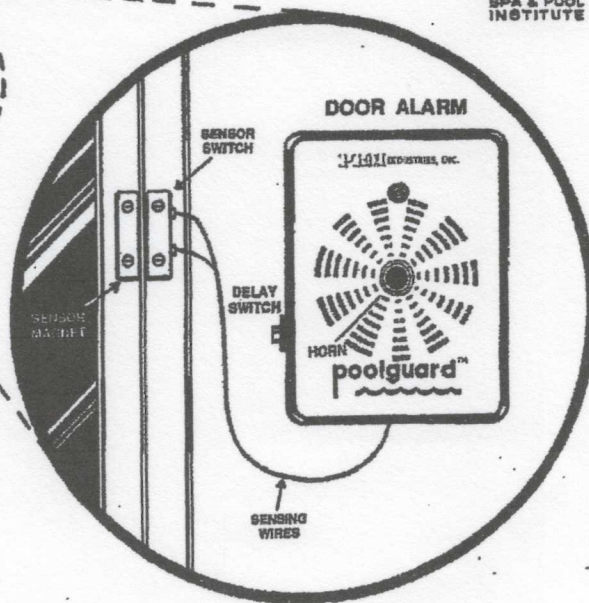
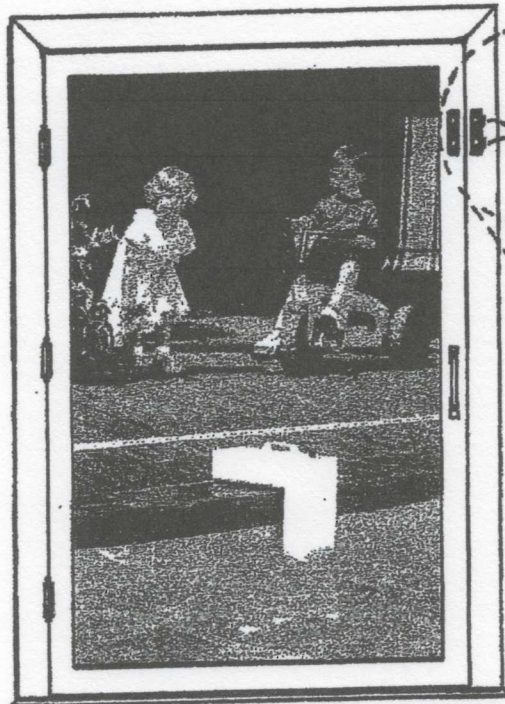
PBM INDUSTRIES, INC.



MEMBER



NATIONAL SPA & POOL INSTITUTE



POOLGUARD DOOR ALARM

Poolguard Door Alarm mounts next to any door which gives easy access to your swimming pool. Any door which allows young children easy and quick access to a pool area is dangerous and should have a door alarm. The Poolguard Door Alarm comes with two magnetic switches, hookup wire, and operates on one 9-volt battery. The door alarm has a delay switch which allows an adult to pass through the door without the alarm sounding. When a child opens the door, the alarm will sound in seven seconds and continue to sound; the alarm will sound in seven seconds even if the child should go out the door and close the door. If for any reason the door is accidentally left open, the alarm will sound. For further information, contact your local Poolguard distributor or call PBM Industries toll free. When you think of pool safety/security, think of Poolguard.

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- UL Approved
- Important Safety Feature
- Complies with Building Codes
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- Battery Powered
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INCREASES POOL SAFETY

Use the safest...

MAGNA-LATCH®
MAGNETIC SAFETY GATE LATCH

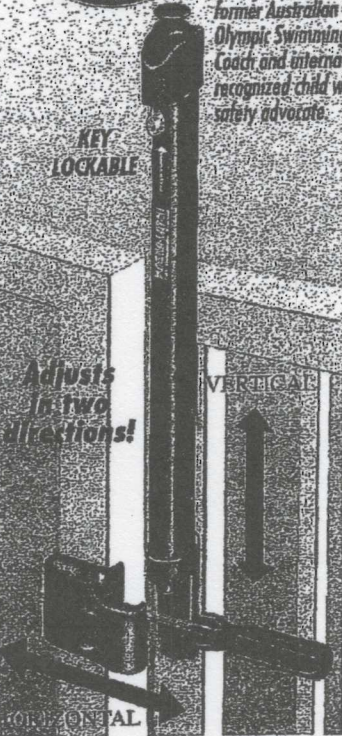


- Magnetically triggered latching
- Key lockable safety (Top Pull and Vertical Pull)
- Adjusts horizontally *and* vertically
- Patented "Lost Motion" Technology
- Quick and easy to install (with convenient self-drilling screws)



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Laurie Lawrence,
former Australian
Olympic Swimming
Coach and internationally
recognized child water
safety advocate

KEY
LOCKABLE



Independently
tested to meet most
Pool Barrier &
Safety Codes

Features

- Patented magnetic self-latching
- Meets international barrier/safety codes
- Quality molded polymers & stainless steel
- Key lockable (Top Pull & Vertical Pull)
- Quality Assurance ISO 9001 manufacturer
- Engineered for ease of installation
- Latches in the "locked" position
- Won't disengage from shaking & pulling
- Unprecedented adjustability
- Tested to 400,000 cycles

Benefits

- No mechanical jamming during closure
- Unprecedented reliability & safety
- No rusting, binding or staining
- Added safety and peace-of-mind
- Limited Lifetime Warranty
- Reduced installation time (costs)
- Exceptional safety & reliability
- Can't be forced open
- Easy to install and maintain
- Proven to last the test of time

**Magnetic
triggering
means no
resistance
to closure!**



Quality
Endorsed
Company
ISO 9001



METAL GATE
"Top Pull" model



WOOD GATE
"Top Pull" model



VINYL GATE
"Vertical Pull" model

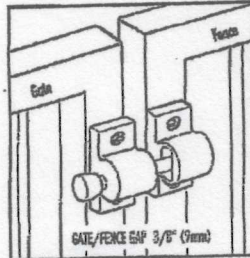
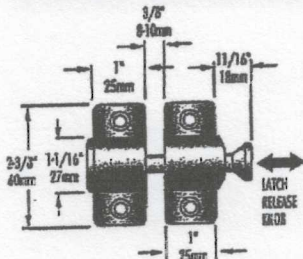


CHAINLINK GATE
"Top Pull" model

MAGNA•LATCH "Side Pull" model

Code

MLSPBX

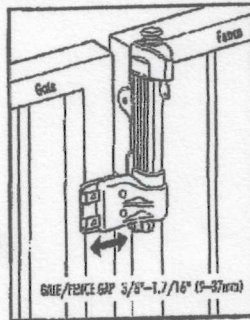
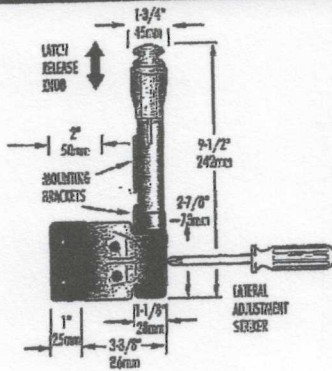


Description: The ideal general-purpose, magnetic latch for gates around the house and garden. Suitable for a wide variety of uses where a non-key lockable latch is needed. Reliable, effective and unobtrusive. When used on picket-style swimming pool gates, a compliant acrylic shield must be used to prevent latch access by toddlers. Consult local authorities for height measurement/requirements on swimming pool gates.

MAGNA•LATCH "Vertical Pull" model

Code

MLVPS2BGA

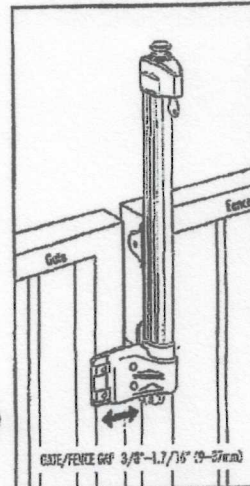
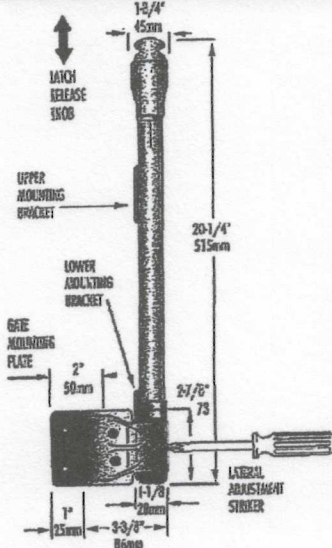


Description: A shorter version of the popular "Top Pull" model latch. Shares the same features and is ideal for safety gates around swimming pools and child safety areas. Also ideal as a pet gate latch for the backyard. Highly child resistant, magnetic latching (no mechanical resistance to closure), key lockable for added security, fully adjustable two-part design that provides easy, accurate installation and long-term, reliable performance. Fits most gates and all gate materials. Ideal for gate/fence heights of 60" (1500mm) or above. Consult local authorities for height measurement/requirements on swimming pool gates.

MAGNA•LATCH "Top Pull" model

Code

MLTPS2BGA



Description: The most popular Magna-Latch model. The ideal gate latch for safety gates around swimming pools and child safety areas such as childcare centers. Highly child resistant, magnetic latching (no mechanical resistance to closure), key lockable for added security, fully adjustable two-part design that provides easy, accurate installation and long-term, reliable performance. Fits most gates and all gate materials. Fits most gate/fence heights but is ideal for 48" (1200mm) gates/fences, as the latch can be installed so that the release knob is out of reach of small children. Consult local authorities for height measurement/requirements on swimming pool gates.

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Safety, Privacy & Security