

ORDINANCE NO. G-04- 14

**AN ORDINANCE ADOPTING THE INDIANA
SWIMMING POOL CODE FOR THE
TOWN OF GEORGETOWN**

WHEREAS, pursuant to I.C. 36-8-2-4, the Town Council of the Town of Georgetown, Indiana is the entity responsible for providing for the health, safety and general welfare of the residents of the Town; and

WHEREAS, after due consideration and discussion, the Town Council of the Town of Georgetown has determined that certain residential swimming pools within the Town of Georgetown, Indiana pose a safety risk to the residents of the Town; and

WHEREAS, after further consideration and discussion, the Town Council of the Town of Georgetown has determined that it is necessary to adopt or swimming pool a method for the enforcement of safety standards for residential swimming pools within the Town; and

WHEREAS, the Town Council of the Town of Georgetown has determined that it is necessary to adopt the provisions of the Indiana Swimming Pool Code set forth at 675 IAC 20-4-1 et seq. to provide safety standards for swimming pools within the Town; and

NOW, THEREFORE, BE IT ORDAINED that the Indiana Swimming Pool Code, set forth at 675 IAC 20-4-1 et seq., attached hereto as Exhibit "A" and incorporated herein by reference, is hereby adopted as the "Swimming Pool Code" for the Town of Georgetown, Indiana, and may be cited as such; and

NOW, THEREFORE, BE IT FURTHER ORDAINED that the Clerk-Treasurer of the Town of Georgetown, Indiana is hereby designated as the Enforcement Officer for the Swimming Pool Code for the Town of Georgetown; and

NOW, THEREFORE, BE IT FURTHER ORDAINED that any person found to be in violation of this Ordinance shall be subject to a fine of not less than \$50.00 nor more than \$500.00 for each violation. Each day a violation continues shall be deemed a separate offense; and

NOW THEREFORE BE IT FURTHER ORDAINED that should any term or provision of this Ordinance be declared to be unconstitutional or invalid by a court of competent jurisdiction, such determination shall not affect the remainder of this Ordinance which shall remain in full force and effect; and

NOW, THEREFORE, BE IT FURTHER ORDAINED that any provision of any Ordinance of the Town of Georgetown, Indiana that is in conflict with any provision this Ordinance is hereby repealed to the extent of such conflict, and any provision of any Ordinance not in conflict with this Ordinance shall remain in full force and effect.

AS I

ADOPTED by the Town Council of the Town of Georgetown this 20 day of

May, 2004.

TOWN COUNCIL OF THE TOWN OF
GEORGETOWN, INDIANA

Jeff K McCaffrey
Jeff McCaffrey, President

Gary L Smith
Gary Smith, Vice-President

J. Renfrow, Member

Jay Davis
Jay Davis, Member

Dean Hammersmith
Dean Hammersmith, Member

ATTEST:

Doug Cook
Doug Cook, Clerk-Treasurer

675 IAC 20-4-5

Ind. Admin. Code tit. 675, r. 20-4-5

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675 IAC 20-4-5. WALLS

Sec. 5. Walls shall not be greater than eleven (11) degrees from plumb for a minimum depth of two (2) feet nine (9) inches from the waterline in deep areas or two (2) feet three (3) inches in the shallow areas. Below these depths the wall may be curved to join the floor. An exception to this section is walls on Type 1 and special purpose pools shall be plumb as is shown in section 10(d) of this rule (675 IAC 20-4-10). Figure No. 4-5.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-5; filed Aug 14, 1989, 9:00 a.m.; 13 IR 63, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.; 25 IR 530)

<General Materials (GM) - References, Annotations, or Tables>

CROSS REFERENCES
Cited in: 675 IAC 20-4-9,
675 IN ADC 20-4-5

END OF DOCUMENT

675 IAC 20-4-6

Ind. Admin. Code tit. 675. r. 20-4-6

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675 IAC 20-4-6. FLOOR SLOPE

Sec. 6. Floor slopes shall be in compliance with the following:

- (1) All slopes shall be uniform.
- (2) The slope of the floor from the shallow end wall towards the deep end shall not exceed one (1) foot in seven (7) feet (1:7) to the point of the first slope change.
- (3) The point of the first slope change shall be defined as the point at which the floor slope exceeds one (1) foot in seven (7) feet (1:7) and shall be not less than six (6) feet from the shallow end wall.
- (4) The slope of the floor from the point of the first slope change to the deep end wall shall not exceed one (1) foot in three (3) feet (1:3).

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission: 675 IAC 20-4-6; filed Aug 14, 1989, 9:00 a.m.; 13 IR 63. eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.; 25 IR 530)

<General Materials (GM) - References, Annotations, or Tables>

675 IN ADC 20-4-6

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675 IAC 20-4-7

Ind. Admin. Code tit. 675, r. 20-4-7

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675 IAC 20-4-7. WATER DEPTH

Sec. 7. (a) Water depths at the shallow end of the swimming area shall be two (2) feet nine (9) inches minimum and three (3) feet six (6) inches maximum, except for special purpose pools.

(b) No minimum water depth shall be specified in a nonswimming area. The nonswimming area shall be visually set apart.

(c) Pools of the type where manufactured diving equipment is permitted shall have the area and depth of water in compliance with the drawings for Type I through Type V pools.

(d) Where manufactured diving equipment is installed, it shall conform to the specifications set forth in section 15 of this rule (675 IAC 20-4-15) and shall be so located in the diving area of the pool so as to provide the minimum dimensions for area and depth of water as shown on drawings of Type I through Type V pools.

(e) The tip of the manufactured diving equipment shall be located at point "A" which is the reference point for all other dimensions.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission: 675 IAC 20-4-7; filed Aug 14, 1989, 9:00 a.m.: 13 IR 63, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

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675 IN ADC 20-4-7

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675 IAC 20-4-8

Ind. Admin. Code tit. 675. r. 20-4-8

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675 IAC 20-4-8. MINIMUM VERTICAL CLEARANCES

Sec. 8. Minimum unobstructed headroom from the top of the manufactured diving equipment shall be provided for diving in accordance with the following table unless greater dimensions are called for by the manufacturer:

Minimum Headroom
Pool Type Above Board
I 12 feet
II 12 feet
III 12 feet
IV 13 feet
V 14 feet

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-8; filed Aug 14, 1989, 9:00 a.m.; 13 IR 63, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.; 25 IR 530)

<General Materials (GM) - References, Annotations, or Tables>

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675 IAC 20-4-9

Ind. Admin. Code tit. 675, r. 20-4-9

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675 IAC 20-4-9. POOL TYPES

Sec. 9. (a) Residential pools shall be further classified into types as an indication of the suitability of a pool for use with diving equipment as shown in subsection (b). Figure No. 4-1. Diving equipment classified at a higher type shall not be used on a pool of a lesser type.

(b) This subsection contains Figure No. 4-1, a reference chart of minimum dimensions for residential pools with manufactured diving equipment.

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(c) The minimum allowable underwater cross sections at B, C, and D shall be as shown on drawings of Type I through Type V pools (section 10(d) through 10(e) of this rule (~~675 IAC 20-4-10~~), Figures No. 4-5 through 4-6).

(d) Constant depth and other swimming pools on which diving equipment is prohibited (Type O) with water depths not exceeding four (4) feet shall not be limited in width, length, or depth of water except as provided in sections 4 through 5 of this rule (~~675 IAC 20-4-4~~, ~~675 IAC 20-4-5~~).

(e) Stationary diving platforms built on-site shall be located in the diving area of the pool so as to provide the minimum dimension as shown in subsection (b). Figure No. 4-1, at a maximum height of three (3) feet above the waterline. Point "A" shall be eighteen (18) inches in front of the wall at the platform center line. Stationary diving platforms shall not extend more than eighteen (18) inches horizontally over the water from the wall.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-9; filed Aug 14, 1989, 9:00 a.m.: 13 IR 64, eIT Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

<General Materials (GM) - References, Annotations, or Tables>

CROSS REFERENCES
Cited in: 675 IAC 20-2-15; 675 IAC 20-4-14,
675 IN ADC 20-4-9

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675 IAC 20-4-10

Ind. Admin. Code tit. 675, r. 20-4-10

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675 IAC 20-4-10. FIGURES 4-2 THROUGH 4-10

Sec. 10. (a) This subsection contains Figure No. 4-2, maximum allowable wall slope.

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(b) This subsection contains Figure No. 4-3, relationship of minimum top view dimensions to steps or stairs.

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(c) This subsection contains Figure No. 4-4, relationship of vinyl, fiberglass, gunite, and concrete construction to minimum requirements.

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(d) This subsection contains Figure No. 4-5, minimum dimensions for a Type I pool.

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(e) This subsection contains Figure No. 4-6, minimum dimensions for a Type II pool.

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(f) This subsection contains Figure No. 4-7, minimum dimensions for a Type III pool.

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(g) This subsection contains Figure No. 4-8, minimum dimensions for a Type IV pool.

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(h) This subsection contains Figure No. 4-9, minimum dimensions for a Type V pool.

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[nk](i) This subsection contains Figure No. 4-10, shallow end detail for pool Types II through V.

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Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-10; filed Aug 14, 1989, 9:00 a.m.; 13 IR 65, eff

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Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; errata filed Nov 15, 1989, 5:00 p.m.: 13 IR 675; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

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CROSS REFERENCES

Cited in: 675 IAC 20-4-5; 675 IAC 20-4-9.
675 IN ADC 20-4-10

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675 IAC 20-4-11

Ind. Admin. Code tit. 675, r. 20-4-11

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675 IAC 20-4-11. OFFSET LEDGES AND UNDERWATER SEAT BENCHES

Sec. 11. (a) Offset ledges, when provided, shall fall within eleven (11) degrees from plumb starting at the junction of the pool wall and waterline and shall have a slip-resisting surface. Maximum width shall be eight (8) inches. The typical allowable dimensions are based on the depths shown below:

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(b) Underwater seat benches, where provided, shall have a maximum horizontal seat bench depth of twenty (20) inches below the waterline, be visually set apart, have a slip-resisting surface, and shall be located fully outside of the required minimum diving water envelope if the pool is designed for use with manufactured diving equipment. Underwater seat benches shall be permitted in the deep end of the pool only if they are either completely recessed, shaped to be compatible with the slope of the pool wall, or in a corner of the pool.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission: 675 IAC 20-4-11; filed Aug 14, 1989, 9:00 a.m.; 13 IR 72, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.; 25 IR 530)

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675 IAC 20-4-12. DECKS AND DECK EQUIPMENT

Sec. 12. (a) Deck work shall be designed and installed so as to include the quality of subbase, concrete mix design, reinforcing, joints, and finishes. Work performed in accordance with the recommended practices of the American Concrete Institute (ACI) Standard 302.1R-80, "Guide for Concrete Floor and Slab Construction", may be deemed acceptable.

(b) Decks, ramps, coping, and similar step surfaces shall be slip-resisting and easily cleanable.

(c) Special features in or on decks such as markers, brand insignias, or similar features shall conform to this section.

(d) Steps outside the pool perimeter shall be in accordance with 675 IAC 14, the Indiana One and Two Family Dwelling Code.

(e) Excavation areas shall be adequately compacted when they support the deck(s).

(f) Decks shall be sloped to effectively drain either to perimeter areas or to deck drains. Drainage shall remove pool splash water, deck cleaning water, and rainwater without leaving standing water.

(g) The minimum slope of decks shall be:

(1) one-eighth (1/8) inch per one (1) foot (1/8:12) for textured, hand-finished concrete decks;

(2) one-fourth (1/4) inch per one (1) foot (1/4:12) for exposed aggregate concrete decks; and

(3) one-half (1/2) inch per one (1) foot (1/2:12) for indoor/outdoor carpeting decks.

(h) The maximum slope for all decks other than wood decks shall be one (1) inch per foot except for ramps. The maximum slope for wood decks shall be one-eighth (1/8) inch per foot except for ramps. Expansion gaps shall be based on good engineering practices with respect to the type of wood used.

(i) The maximum voids between adjoining concrete slabs and/or between concrete slabs and expansion joint material shall be three-sixteenths (3/16) inch of horizontal clearance with a maximum difference in vertical elevation of one-fourth (1/4) inch.

(j) Construction joints where pool coping meets concrete decks shall be watertight and shall not allow water to pass to the ground beneath.

(k) The areas where the decks join pool coping shall be designed and installed so as to protect the coping and its mortar bed from damage as a result of reasonable movement of adjoining decks.

(l) Joints in decks shall be provided to minimize the potential for cracks due to a change in elevations, separation of surfaces, or movement of the slab.

(m) The areas where decks join concrete work shall be protected by expansion joints to protect the pool adequately from the pressures of relative movements.

(n) Decks shall be edged, have a radius, or be otherwise relieved to eliminate sharp corners.

(o) Site drainage shall be provided so as to direct all perimeter deck drainage as well as general site and roof drainage away from the pool.

(p) If used, an open pit or leaching design for backwash sump purposes shall be located so that it falls completely below adjacent decks and fully outside a line projected forty-five degrees (45degrees) downward and away from such decks as shown below.

TABULAR OR GRAPHIC MATERIAL SET FORTH AT THIS POINT IS NOT DISPLAYABLE

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-12; filed Aug 14, 1989, 9:00 a.m.: 13 IR 73, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; errata filed Aug 11, 1990, 5:00 p.m.: 13 IR 2140; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

<General Materials (GM) - References, Annotations, or Tables>

675 IN ADC 20-4-12

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675 IAC 20-4-13

Ind. Admin. Code tit. 675, r. 20-4-13

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675 IAC 20-4-13. CIRCULATION PIPING

Sec. 13. (a) Circulation system piping, other than that integrally included in the manufacture of the pool, shall be subject to an induced static hydraulic pressure test (sealed system) at twenty-five (25) pounds per square inch for thirty (30) minutes. This test shall be performed before the deck is poured, and the pressure shall be maintained through the deck pour.

(b) Valves installed in or under any decks shall provide a minimum ten (10) inches diameter access cover and valve pit to facilitate servicing.

(c) A hose bibb with a vacuum breaker shall be provided for washing down the entire deck area.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-13; filed Aug 14, 1989, 9:00 a.m.; 13 IR 74, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.; 25 IR 530)

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675 IN ADC 20-4-13

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675 IAC 20-4-14. POOL EGRESS

Sec. 14. (a) All pools shall have a means of entry/exit in the shallow end consisting of one (1) ladder, stairs, or recessed treads. Where two (2) or more entries/exits are used, the ladders, stairs, or recessed treads may be used in combination. All treads shall have slip-resisting surfaces.

(b) Where water depths are twenty-four (24) inches or less at the pool wall, such areas shall be considered as providing their own natural mode for entry/exit.

(c) For pools over thirty (30) feet in width, both sides of the deep portions of the pool shall have entries/exits provided.

(d) A means of entry/exit for the shallow end shall be located between the shallow end wall and the cross section at point "D". Where required, entry/exit for the deep end shall be between the deep end wall and the cross section at point "B". (Refer to section 9(b) of this rule (675 IAC 20-4-9). Figure No. 4-1.)

(e) Ladders, stairs, recessed treads, or underwater seat benches/swimouts shall be provided at the deep end of the pool if the water depth is over five (5) feet.

(f) The design and construction of protruding and recessed pool stairs shall conform to the following:

(1) Step treads shall have a minimum unobstructed horizontal depth of ten (10) inches and a minimum unobstructed surface area of two hundred forty (240) square inches.

(2) Risers at the center line of the treads shall have a maximum uniform height of twelve (12) inches with the bottom riser height allowed to vary plus or minus two (2) inches from the uniform riser height.

(3) The vertical distance between the pool coping edge, deck, or step surface, which shall be slip-resisting, and the uppermost step tread shall be a maximum of twelve (12) inches.

(g) If handrails are used with stairs, they shall conform to the following:

(1) Handrails, if removable, shall be installed in such a way that they cannot be removed without the use of tools.

(2) The leading edge of handrails facilitating stairs and pool entry/exit shall be no more than eighteen (18) inches plus or minus three (3) inches horizontally from the vertical plane of the bottom riser, where applicable.

(3) The outside diameter of handrails shall be between one (1) inch and two (2) inches.

(h) Underwater seats, benches, or swimouts may be provided as part of the stairs or recessed treads.

(i) The design and construction of pool ladders shall conform to the following:

(1) Pool ladders shall be made entirely of corrosion-resisting materials.

(2) Ladders shall provide two (2) handholds or two (2) handrails.

(3) Below the water level, there shall be a clearance of not more than six (6) nor less than three (3) inches between any ladder tread edge measured from the pool wall side of the tread and the pool wall.

(4) The clear distance between ladder handrails shall be a minimum of seventeen (17) inches and a maximum of twenty-four (24) inches.

(5) There shall be a uniform height between ladder treads with a seven (7) inch minimum distance and a twelve (12) inch maximum distance.

(6) Ladder treads shall have a minimum horizontal depth of one and one-half (1 1/2) inches.

(7) The vertical distance between the top tread and the pool coping or deck shall be a maximum of twelve (12) inches.

(j) The design and construction of recessed treads in the pool wall shall conform to the following:

(1) Recessed treads at the center line shall have a uniform vertical spacing of twelve (12) inches maximum and seven (7) inches minimum.

(2) The vertical distance between the pool coping edge, deck, or step surface and the uppermost recessed tread shall be a maximum of twelve (12) inches.

(3) Recessed treads shall have a minimum depth of five (5) inches and a minimum width of twelve (12) inches.

(4) Recessed treads shall drain into the pool to prevent accumulation of dirt.

(5) Each set of recessed treads shall be provided with a pair of handrails/grabrails/handholds to serve all treads and risers.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-14; filed Aug 14, 1989, 9:00 a.m.; 13 IR 74, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.; 25 IR 530)

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675 IAC 20-4-15

Ind. Admin. Code tit. 675, r. 20-4-15

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675 IAC 20-4-15. DIVING EQUIPMENT

Sec. 15. (a) Supports, platforms, stairs, and ladders for manufactured diving equipment shall be designed to carry the anticipated loads. Stairs and ladders shall be of corrosion-resisting material, easily cleanable, and with slip-resisting tread. All manufactured diving stands higher than twenty-one (21) inches measured from the deck to the top butt end of the board shall be provided with stairs and/or a ladder. Step treads shall be self-draining.

(b) Platforms and manufactured diving equipment of one (1) meter or higher shall be protected with guard rails which shall be at least thirty (30) inches above the diving board and extend to the edge of the pool wall.

(c) Manufactured diving equipment shall be designed for swimming pool use and shall be installed in accordance with the manufacturer's recommendations provided with the equipment.

(d) A label shall be permanently affixed to the manufactured diving equipment or jump board and shall include not less than:

(1) manufacturer's name and address;

(2) board equipment length;

(3) identification as to diving or jump board;

(4) fulcrum setting specifications, if applicable;

(5) date of manufacture; and

(6) reference to manufacturer's safety standard, if any, that the board will meet.

(e) Manufactured diving equipment suitable for installation on a lower pool type may be installed on any higher pool type providing no less a water envelope is provided from the tip of the board than called for in the lower type.

Manufactured diving equipment of a greater type, e.g., Type III, shall not be installed on a pool of lesser type, e.g., Type II. In addition, the following provisions apply:

(1) Manufactured diving equipment shall have slip-resisting tread surfaces.

(2) Manufactured diving equipment shall be permanently anchored to the pool deck. The edge of the board at the tip end shall be level with the water surface. The tip end of the board over the pool water surface may be higher than the butt end of the board. Refer to manufacturer's recommendations.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission: 675 IAC 20-4-15; filed Aug 14, 1989, 9:00 a.m.: 13 IR 75, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

<General Materials (GM) - References, Annotations, or Tables>

CROSS REFERENCES
Cited in: 675 IAC 20-4-7.
675 IN ADC 20-4-15

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675 IAC 20-4-16

Ind. Admin. Code tit. 675. r. 20-4-16

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675 IAC 20-4-16. SWIMMING POOL SLIDES

Sec. 16. (a) The requirements of the U.S. Consumer Product Safety Commission (CPSC) Standard for Swimming Pool Slides as published in 16 C.F.R. 1207, shall be used for standards relating to swimming pool slides.

(b) Swimming pool slides in residential swimming pools shall terminate such that the following applies:

(1) The end of the slide is not more than twelve (12) inches above the pool deck.

(2) The depth of the water at the end of the slide meets the manufacturer's recommendations or thirty-six (36) inches, whichever is greater.

(3) The distance from the end of the slide is not less than twenty (20) feet measured along the axis of travel.

(4) The depth of water described in subdivision (2) or a gradually increasing depth shall be maintained for not less than ten (10) feet beyond the end of the slide. This depth of water may gradually decrease beyond that point to a minimum water depth of twenty-four (24) inches. For this requirement a maximum slope of one (1) in seven (7) (1:7) shall be considered "gradual".

(c) Swimming pool slides shall be installed in accordance with the manufacturer's installation instructions and specifications.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission: 675 IAC 20-4-16; filed Aug 14, 1989, 9:00 a.m.; 13 IR 76. eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.; 25 IR 530)

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675 IAC 20-4-17. CIRCULATION SYSTEM

- Sec. 17. (a) A circulation system consisting of pumps, piping, return inlets and suction outlets, filters, and other necessary equipment shall be provided for complete circulation of water through all parts of the pool. This circulation system shall be capable of maintaining water clarity and chemistry requirements.
- (b) The equipment shall be of adequate size to turn over the entire pool water capacity at least once every twelve (12) hours. Water clarity shall be maintained. When standing at the pool's edge at the deep end, the deepest portion of the pool floor shall be visible.
- (c) Circulation system components which require replacement or servicing shall be accessible for inspection, repair, or replacement and shall be installed according to the manufacturer's instructions.
- (d) Pool equipment shall be properly supported to prevent damage from misalignment, settlement, etc. The equipment shall be mounted so as to minimize the potential for the accumulation of debris and moisture following manufacturer's instructions.
- (e) The water velocity in the pool piping shall not exceed ten (10) feet per second for discharge piping and eight (8) feet per second for suction piping, unless summary calculations are provided to show that the greater flow is possible with the pump and piping provided. In copper pipes, the velocity shall not exceed eight (8) feet per second for suction and discharge piping. Pool piping shall be sized to permit the rated flows for filtering.
- (f) The circulation system piping and fittings shall be nontoxic, shall be considered to be process piping, and shall be of material able to withstand operating pressures and operating conditions.
- (g) Equipment shall be designed and fabricated to drain the pool water from the equipment, together with exposed face piping, by removal of drain plugs and manipulating valves, or by other methods. Refer to manufacturer's recommendations for specific information on draining the system.
- (h) A pressure or vacuum gauge or other means of indicating system condition shall be provided in the circulation system in an easily readable location.
- (i) Time clocks may be used to set the operating period of the circulation system. When time clocks are used, they shall also govern the operating time of appurtenant devices such as chemical/disinfectant feeders, slurry feeders, heaters, etc., that are dependent upon circulation pump flow.
- (j) Written operation and maintenance instructions shall be provided for the circulation system.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission: 675 IAC 20-4-17; filed Aug 14, 1989, 9:00 a.m.: 13 IR 76. eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

<General Materials (GM) - References, Annotations, or Tables>

CROSS REFERENCES
Cited in: 675 IAC 20-4-18,
675 IN ADC 20-4-17

109 22

675 IAC 20-4-18

Ind. Admin. Code tit. 675, r. 20-4-18

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675 IAC 20-4-18. FILTERS

Sec. 18. (a) Filters shall be designed so that after cleaning per manufacturer's instructions the system can provide the water clarity noted in section 17(a) of this rule (~~675 IAC 20-4-17~~).

(b) Filters shall be designed so that filtration surfaces can be inspected and serviced.

(c) On pressure-type filters, a means shall be provided to permit the release of internal pressure.

(d) Any filter incorporating an automatic internal air release as its principal means of air release shall have lids which provide a slow and safe release of pressure as a part of its design.

(e) Any separation tank used in conjunction with any filter tank shall have a manual means of air release or a lid which provides a slow and safe release of pressure as it is opened as a part of its design.

(f) Pressure filters and separation tanks shall have operation and maintenance instructions permanently installed on the filter or separation tank and shall include a precautionary statement warning not to start up the system after maintenance without first opening the air release and proper reassembly of the filter and separation tank. The statement shall be visible and noticeable within the area of the air release.

(g) Piping furnished with the filter shall be of suitable material capable of withstanding one and one-half (1 1/2) times the working pressure. The suction piping shall not collapse when there is a complete shutoff of flow on the suction side of the pump.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-18: filed Aug 14, 1989, 9:00 a.m.: 13 IR 77. eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; errata filed Nov 15, 1989, 5:00 p.m.: 13 IR 677: readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

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675 IN ADC 20-4-18

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675 IAC 20-4-19

Ind. Admin. Code tit. 675. r. 20-4-19

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675 IAC 20-4-19. PUMPS

Sec. 19. (a) A pump and motor shall be provided for circulation of the pool water. Performance of all pumps shall meet or exceed the conditions of flow required for filtering; cleaning, if applicable; and the filters against the total dynamic head developed by the complete system.

(b) With all pressure filter systems a cleanable strainer or screen shall be provided upstream of the circulation pumps to remove solids, debris, hair, lint, etc.

(c) Pumps and motors shall be accessible for inspection and service.

(d) The design and construction of the pumps and component parts shall provide safe operation that is not hazardous to the operator or maintenance personnel.

(e) Where a mechanical pump seal is provided, components of the seal shall be corrosion-resisting and capable of operating under conditions normally encountered in pool operation.

(f) Proper direction of rotation for the pump shall be clearly indicated on the pump.

(g) All motors shall have as a minimum an open drip-proof enclosure and be constructed electrically and mechanically to perform satisfactorily and safely under the conditions of load and environment normally encountered in swimming pool installations.

(h) Motors shall be capable of operating the pumps under full load with a voltage variation of plus or minus ten percent (10%) from the nameplate rating. If the maximum service factor of the motor is exceeded (at full voltage), the manufacturer shall indicate this on the pump curve.

(i) All motors shall have thermal or current overload protection, either built in or in the line starter, to provide locked rotor and running protection.

(j) Where the pump is below the waterline, valves shall be installed on permanently connected suction and discharge lines, located in an accessible place outside the walls of the pool, where they shall be readily and easily accessible for maintenance and removal of the pump.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-19; filed Aug 14, 1989, 9:00 a.m.: 13 IR 77, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; errata filed Nov 15, 1989, 5:00 p.m.: 13 IR 677; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

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675 IN ADC 20-4-19

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675 IAC 20-4-20

Ind. Admin. Code tit. 675, r. 20-4-20

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675 IAC 20-4-20. RETURN INLETS AND SUCTION OUTLETS

Sec. 20. (a) Return inlets and suction outlets shall be provided and arranged to produce a uniform circulation of water and maintain a uniform disinfectant residual throughout the entire pool. Where skimmers are used, the return inlets shall be located so as to help bring floating particles within range of the skimmers.

(b) The number of return inlets shall be based on a minimum of one (1) return inlet per six hundred (600) square feet of pool surface area, or fraction thereof. Return inlet fittings shall be installed of sufficient pipe size or quantity to allow a full design turnover rate of the circulation system in accordance with the manufacturer's recommendations for return inlets.

(c) Return inlets from the circulation system shall be designed so as not to constitute a hazard to the bather.

(d) The pool shall not be operated if the suction outlet grate is missing, broken, or secured in such a way that it can be removed without the use of tools.

(e) If the suction outlet system, such as a filtration system, booster system, automatic cleaning system, solar system, etc., has a single suction outlet, or multiple suction outlets which can be isolated by valves, each suction outlet shall protect against bather entrapment by:

(1) an antivortex cover;

(2) a twelve (12) inch by twelve (12) inch (12x12) grate or larger; or

(3) other means acceptable to the local authority.

(f) Where provided, the vacuum cleaner fittings shall be located in accessible positions at least six (6) inches and no greater than eighteen (18) inches below the minimum operating water level or as an attachment to the skimmers.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-20; filed Aug 14, 1989, 9:00 a.m.: 13 IR 78, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

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675 IAC 20-4-21

Ind. Admin. Code tit. 675, r. 20-4-21

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675 IAC 20-4-21. SURFACE SKIMMER SYSTEMS

Sec. 21. (a) A surface skimming system shall be provided on all residential swimming pools and shall be designed and constructed to skim the pool surface when the water level is maintained within the operational parameters of the system's rim or weir device.

(b) Skimming devices shall be designed and installed so as not to constitute a hazard to the bather.

(c) Where automatic surface skimmers are used as the sole overflow system, at least one (1) surface skimmer shall be provided for each eight hundred (800) square feet or fraction thereof of the water surface area. Nominal recessed areas such as stairs, swimouts, spas, etc., shall not be considered in the calculation. Where skimmers are used, they shall be located to maintain effective skimming action over the entire surface of the pool.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission: 675 IAC 20-4-21; filed Aug 14, 1989, 9:00 a.m.; 13 IR 78, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.; 25 IR 530)

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675 IAC 20-4-22. ELECTRICAL REQUIREMENTS

Sec. 22. The requirements of 675 IAC 17, the Indiana Electrical Code, shall be followed in the installation of all electrical equipment wiring or appliances in the pool area or vicinity of the pool's circulation system.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-22; filed Aug 14, 1989, 9:00 a.m.: 13 IR 78, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

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675 IAC 20-4-23. HEATERS

Sec. 23. (a) Swimming pool heaters shall be of an "approved" type.

(b) Heaters shall be properly sized.

(c) The heaters shall be installed according to the manufacturer's recommendations, but not less than the following:

(1) The heater shall be installed on a concrete (or equivalent) base unless it is specifically designed for installation on a combustible surface.

(2) When installing the heater, adequate clearances shall be maintained on all sides and over the top of the unit. Consult manufacturer's instructions for proper clearances.

(3) In order to assure proper combustion, the heater shall have adequate ventilation installed as follows:

(A) When installing a heater indoors, proper openings to the room are required. The heater shall be installed in accordance with 675 IAC 18, the Indiana Mechanical Code, and the manufacturer's recommendations for properly sized air openings to the enclosure.

(B) All fossil fuel heaters shall be supplied with some type of venting system for either indoor or outdoor installation. These draft or venting devices shall be installed according to the manufacturer's recommendations and shall not be modified.

(C) When installing a heater that will be using propane gas, special precautions shall be noted. Propane gas is heavier than air and, therefore, can create special problems when the heater is installed in a pit or in an enclosed area. Whenever installing a heater with propane gas, the manufacturer's ventilation recommendations shall be followed.

(d) The heater gas supply and pipe sizing shall be adequate and shall comply with manufacturer's recommendations. When installing a gas-fired heater, the gas line shall be run from the gas meter as directly as practical.

(e) The heater circulation system shall comply with the manufacturer's recommendations. Precautions shall be taken to avoid siphonage of hot water into the pump or filter. When manufacturers recommend metal pipe, i.e., copper, heat sinks, they shall be installed vertically connected to the heater to prevent heat damage to plastic circulation pipe. Heater piping shall be designed to avoid excessive friction losses through the pipe and/or bypass valves required. When installing bypass valves, caution shall be taken to insure adequate flow through the heater at all times.

(f) The water piping system shall be installed according to the manufacturer's recommendations. When manufacturers recommend precautions to eliminate siphonage so that the heater does not destroy the filter or any plastic pipe that is being used, the manufacturer's recommendations shall be followed. NOTE: When installing a heater and a filter system, adequate provisions shall be made so that the heater does not cause excessive pressure drop to the filter system. Refer to manufacturer's requirements and/or recommendations for installation of bypass valves. Excessive flow that causes pressure drop can be eliminated by the installation of an external or an automatic bypass valve. When installing a bypass valve, caution shall be noted so that there is always adequate flow through the heater.

(g) A time clock is recommended, and when used it shall be set long enough to properly filter the water and allow enough time for proper heating of the pool. It is recommended that a dual time clock or fireman's switch be used in conjunction with the heater to shut the heater off approximately one-half (1/2) hour before the filter system shuts down.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission: 675 IAC 20-4-23; filed Aug 14, 1989, 9:00 a.m.: 13 IR 79, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

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675 IAC 20-4-24

Ind. Admin. Code tit. 675, r. 20-4-24

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675 IAC 20-4-24. WATER SUPPLY

Sec. 24. (a) The water supply serving the pool, which may come from a variety of sources, shall meet 327 IAC, the rules of the water pollution control board, before the bather uses the pool.

(b) No direct mechanical connection shall be made between the potable water supply and the swimming pool, chlorinating equipment, or the system of piping for the pool unless it is protected against backflow and siphonage in a manner approved by 675 IAC 16, the Indiana Plumbing Code, or through an airgap meeting that same code.

(c) An over-the-rim spout, if used, shall be located under a diving board, adjacent to a ladder, or otherwise properly shielded so as not to create a hazard. Its open end shall have no sharp edges and shall not protrude more than two (2) inches beyond the edge of the pool.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-24; filed Aug 14, 1989, 9:00 a.m.; 13 IR 79, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.; 25 IR 530)

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675 IAC 20-4-25

Ind. Admin. Code tit. 675, r. 20-4-25

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675 IAC 20-4-25. WASTE WATER DISPOSAL

Sec. 25. Backwash water shall be discharged into a sanitary sewer through an approved airgap or into an approved subsurface disposal system or by other means in accordance with 675 IAC 16. the Indiana Plumbing Code, and 327 IAC. the rules of the water pollution control board.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-25; filed Aug 14, 1989, 9:00 a.m.: 13 IR 80, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

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675 IAC 20-4-26

Ind. Admin. Code tit. 675, r. 20-4-26

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675 IAC 20-4-26. DISINFECTANT; OXIDATION; CHEMICAL FEEDER EQUIPMENT

Sec. 26. (a) Disinfectant equipment, oxidation equipment, and chemical feeders, hereafter referred to jointly as "equipment", shall be capable of precisely introducing a sufficient quantity of an approved disinfecting agent or other chemical to maintain one (1) milligram per liter of free chlorine residual.

(b) Manufacturer's instructions shall be used in installing chemical feeders. The installation and use of chemical feeders shall conform to the following:

(1) Where using chemical feeders, it is extremely important that they be installed downstream from the filter and heater. An exception is equipment specifically labeled for feeding to the suction side of the pump.

(2) If the chemical feeder is equipped with its own pump, it shall be installed so it introduces the gas or solution downstream from the heater and, if possible, at a position lower than the heater outlet fitting.

(3) Chemical feed pumps shall be wired so they cannot operate unless the filter pump is running. If the chlorinator has an independent timer, the filter and chemical feed pump timers shall be interlocked.

(c) The installation of ozone generating equipment shall be limited to low ozone output generating equipment. The installation and use of ozone generating equipment shall conform to the following:

(1) Installation of ozone generating equipment shall allow for indications of operation or malfunction to be easily observed. The equipment shall be installed in a manner such that a malfunction will not endanger operators or pool users.

(2) Ozone generating equipment shall be used in conjunction with other chemical treatments to meet the chemical operating parameters in this section of this rule (675 IAC 20-4). Normal maintenance and monitoring of water chemistry shall be followed.

(3) If the equipment is capable of exposing maintenance or service personnel to ozone concentrations exceeding five hundred (500) parts per million, a self-contained breathing apparatus approved for ozone usage shall be provided. If a distinct, pungent odor is smelled when the ozone generating equipment is operating, the equipment shall be shut down, and the area shall be ventilated. The equipment shall be inspected and repaired as necessary by qualified service personnel.

(4) Manufacturer's recommendations shall be used to determine where and how ozone shall be injected.

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-26; filed Aug 14, 1989, 9:00 a.m.: 13 IR 80, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

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675 IAC 20-4-27. SAFETY FEATURES

Sec. 27. (a) A residential pool shall be provided with a suitable handhold around its perimeter in areas where depths exceed three (3) feet six (6) inches. Handholds shall be provided no further apart than four (4) feet and shall consist of any one (1) or a combination of items listed as follows:

- (1) Coping, ledge, or deck along the immediate top edge of the pool which provides a slip-resisting surface of at least four (4) inches minimum horizontal width and located at or not more than twelve (12) inches above the waterline.
- (2) Ladders, stairs, or seat ledges.
- (3) A secured rope or railing placed at or not more than twelve (12) inches above the waterline.
 - (b) Rope anchor devices shall be installed at a minimum of one (1) foot and a maximum of two (2) feet on the shallow end side of a point of change in floor slope. In pools where the slope change occurs in water depths less than four (4) feet six (6) inches, a transition rope supported by buoys shall be installed.
 - (c) Access to residential pools shall be restricted by one (1) of the following means:
 - (1) Walls or fencing not less than five (5) feet high and completely surrounding the pool and deck area with the exception of self-closing and latching gates and doors, both capable of being locked.
 - (2) Other means not less than five (5) feet high and deemed impenetrable by the enforcing authority at the time of construction and completely surrounding the pool and deck area when the pool is not in use.
 - (3) A combination of subdivisions (1) and (2) that completely surrounds the pool and deck with the exception of self-closing and latching gates and doors which are capable of being locked. This applies to subdivisions (1) and (2) and this subdivision only.
 - (4) A power safety pool cover which shall:
 - (A) provide a continuous connection between the cover and the deck, so as to prohibit access to the pool when the cover is completely drawn over the pool;
 - (B) be mechanically operated by a key or key and switch such that the cover cannot be drawn open or retracted without the use of a key;
 - (C) is installed with track, rollers, rails, guides, or other accessories necessary to accomplish clauses (A) and (B), in accordance with the manufacturer's instructions; and
 - (D) bear an identification tag indicating that the cover satisfies the requirements of ASTM F1346 for power safety pool covers.
- (d) Not less than the following lifesaving equipment shall be installed with each residential swimming pool:
 - (1) A ring or throwing buoy fitted with forty (40) feet of one-fourth (1/4) inch diameter line.
 - (2) A pole not less than twelve (12) feet in length.
 - (3) Access to a telephone.

Authority: IC 22-13-2-2; IC 22-13-2-13

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

(Fire Prevention and Building Safety Commission; 675 IAC 20-4-27; filed Aug 14, 1989, 9:00 a.m.: 13 IR 80, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document #89-17 was filed Aug 14, 1989.]; errata filed Aug 11, 1990, 5:00 p.m.: 13 IR 2140; filed Dec 11, 1992, 5:00 p.m.: 16 IR 1390; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530)

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