SWIMMING POOL, HOT TUB PERMIT CHECKLIST

AND ZONING PERMIT APPLICATION" FORM.
PROVIDE A COPY OF THE PROPERTY SURVEY PLAN AND DRAW THE SWIMMING POOL, HOT TUB ON IT. SHOW SETBACK DIMENSIONS FROM POOL, HOT TUB TO EACH SIDE, REAR AND FRONT PROPERTY LINES. SHOW ALL DOORS REQUIRING A POOL ALARM THAT LEAD INTO THE POOL AREA.
PROVIDE A PICTURE, BROCHURE AND/OR CONSTRUCTION PLAN OF THE PROPOSED POOL. PROVIDE CROSS SECTION PLANS AND DETAILS FOR INGROUND POOLS. PROVIDE BARRIER FENCE DETAILS INCLUDING GATE LATCHES. ALL GATES MUST SWING AWAY FROM THE POOL.
FILL OUT AND SIGN THE "PERMIT AGREEMENT" FORM.
FILL OUT AND SIGN THE "WORKERS COMPENSATION AFFIDAVIT OF EXEMPTION" FORM. OR,
PROVIDE A PROOF OF WORKERS COMPENSATION INSUARANCE CERTIFICATE NAMING MOON TOWNSHIP AS A CERTIFICATE HOLDER.
READ AND SIGN THE "SWIMMING POOL, HOT TUB AFFIDAVIT" FORM.
FILL OUT "ELECTRIC PERMIT" APPLICATION AND SUBMIT WITH PAYMENT CHECK.

Meet with Building Code Official to submit and review all information submitted. It usually takes about a week to process a pool, hot tub permit. This office will call to let you know when the permit is ready to be picked up and how much the building permit fee is.

Building Permit fees will be required to be paid when you pick up the permit.

SWIMMING POOL, HOT TUB BUILDING and ZONING PERMIT APPLICATION

Township of Moon,1000 Beaver Grade Road, Moon Township, PA 15108 - Phone 412-262-1700- Fax 412-262-5344

1	Location of Proposed Construction:		
	(Street No.)	(Street name)	
2	2. Applicant's name:	Email:	***************************************
	Applicant's Address:		
	Phone No: (cell) Office:_	Ho	me
3	. Type of Use: Residential Commercial Industria	I □ Other (specify)	
4	. Type of Improvement: □ Above Ground Pool □ In Ground	Pool - Hot Tub - Other (specify)	
5.	. Property Information: Zoning District:	County Lot & Block:	
	Subdivision Name:	Lot No Lo	t Size:
	Owner's Name:		
	Owner's Address:		
	Owner's Phone No.		
	Occupant's Name:	Occupant's Phone No	o.:
	Zoning Setbacks: (the distance between the structure and	the property lines)	
	Front Yard: Rear Yard	Right Side	Left Side
7.	Building Code Information for proposed construction:		
	Total Cost of Construction:		
)	□ Above Ground Pool □ In Ground Pool □ Hot Tub Siz	ex Pool Depth	Diving Board
	Contractor Company Name:		
	Contact Person:		
	Contractor's Address:		9
	Contractor's Office Phone No.:	Email:	,
re pp pp	applicant/owner hereby certifies that the statements made herein a true and correct. The applicant/owner shall be responsible for revie licable codes and ordinances. The applicant/owner shall also be re- licant/owner grants Moon Township officials the right to enter onto to applicant, I hereby certify that the proposed work is authorized by the	wing and fully understanding all Permit cond sponsible for any fees incurred in relation to the property for the purpose of inspection the	itions and insuring compliance to all the above project. The work permitted and posting notices.
pp	olicant .	Owner:	₫

PERMIT AGREEMENT

In consideration of the issuance by the Township of Moon (the "Township") of a Building Permit, Zoning Permit and other permits for the property located at

address:	
and to the undersigned property owner(s) or the ag acknowledges that, in reviewing plans and specific inspection work of the Applicant; the employees, of official of the Township are only performing their	cations, in issuing permits and consultants, elected or appointed duties to require compliance with the
minimum requirements of the applicable ordinance	
Pennsylvania Uniform Construction Code pursuan and are not warranting to the Applicant or to any the design, engineering or work of the Applicant or	nird party the quality of adequacy of
Applicant further acknowledged that although provided, it will not be possible for the Township to Applicant's design and engineering or to inspect every contract the second sec	o review every aspect of the
Accordingly, neither the Township nor any of its el or employees shall have any liability to the Applica	
design, engineering or work, even if it is alleged that have been discovered during the Township's review	
Applicant agrees to defend, hold harmless and inde	mnify the Township, its elected
officials, consultants and employees from and again actions, and causes of actions of any one or more th	
the Township's review or inspection of the Applica	nt's design, engineering, or work or
issuance of a permit or permits, or arising out of or work done by Applicant pursuant to such permit or	
Agreement to Applicant's design, engineering or wo	ork shall include such design,
engineering, and work, which is performed by the A employees, agents, independent contractors, subcom	
performing work pursuant to the issuance of the Bui	
other Permits by the Township.	
Owner's Signature	Date
Print Name	
Owner's Signature	Date
Print Name	

Address of proposed work_____

WORKERS COMPENSATION AFFIDAVIT OF EXEMPTION

Section 104 of the Workers' Compensation Act. Please explain:	Basis for exemption is (please check one):
Section 104 of the Workers' Compensation Act. Please explain: All of the contractor's employees on the project are exemption religious grounds under Section 304.2 of the Workers' Compensation Act Please explain: Owner is the contractor Other. Please explain: Any subcontractors used on this project will be required to carry their own workers' compensation coverage. Any subcontractors used on this project will be required to carry their own workers' compensation coverage. Violation of the Workers' Compensation Act or the terms of this information form will subject the contractor to a stop-work order and other fines and penalties as provided by law. My signature on behalf of or as the contractor as stated on this form constitutes my verification that the statements contained here are true. Signature Date Name (Please Print)	☐ The Contractor for this building permit is a sole proprietorship without employees
□ All of the contractor's employees on the project are exemption religious grounds under Section 304.2 of the Workers' Compensation Act Please explain: □ Owner is the contractor □ Other. Please explain: Please be aware of the following requirements under the Pennsylvania Workers' Compensation Act: ⇒ Any subcontractors used on this project will be required to carry their own workers' compensation coverage. ⇒ Violation of the Workers' Compensation Act or the terms of this information form will subject the contractor to a stop-work order and other fines and penalties as provided by law. My signature on behalf of or as the contractor as stated on this form constitutes my verification that the statements contained here are true. Signature	☐ The Contractor is a corporation, and the only employees working on the project have and are qualified as "Executive Employees" under
Please explain: Owner is the contractor Other. Please explain: Please be aware of the following requirements under the Pennsylvania Workers' Compensation Act: Any subcontractors used on this project will be required to carry their own workers' compensation coverage. Violation of the Workers' Compensation Act or the terms of this information form will subject the contractor to a stop-work order and other fines and penalties as provided by law. My signature on behalf of or as the contractor as stated on this form constitutes my verification that the statements contained here are true. Signature	Section 104 of the Workers' Compensation Act. Please explain:
Other. Please explain: Please be aware of the following requirements under the Pennsylvania Workers' Compensation Act: Any subcontractors used on this project will be required to carry their own workers' compensation coverage. Violation of the Workers' Compensation Act or the terms of this information form will subject the contractor to a stop-work order and other fines and penalties as provided by law. My signature on behalf of or as the contractor as stated on this form constitutes my verification that the statements contained here are true. Signature OPlease Print Name (Please Print)	All of the contractor's employees on the project are exemption religious grounds under Section 304.2 of the Workers' Compensation Ac
Other. Please explain:	Please explain:
Please be aware of the following requirements under the Pennsylvania Workers' Compensation Act: Any subcontractors used on this project will be required to carry their own workers' compensation coverage. Violation of the Workers' Compensation Act or the terms of this information form will subject the contractor to a stop-work order and other fines and penalties as provided by law. My signature on behalf of or as the contractor as stated on this form constitutes my verification that the statements contained here are true. Signature	Owner is the contractor
Please be aware of the following requirements under the Pennsylvania Workers' Compensation Act: Any subcontractors used on this project will be required to carry their own workers' compensation coverage. Violation of the Workers' Compensation Act or the terms of this information form will subject the contractor to a stop-work order and other fines and penalties as provided by law. My signature on behalf of or as the contractor as stated on this form constitutes my verification that the statements contained here are true. Signature Date Name (Please Print)	
⇒ Violation of the Workers' Compensation Act or the terms of this information form will subject the contractor to a stop-work order and other fines and penalties as provided by law. My signature on behalf of or as the contractor as stated on this form constitutes my verification that the statements contained here are true. Signature	
penalties as provided by law. My signature on behalf of or as the contractor as stated on this form constitutes my verification that the statements contained here are true. Signature	⇒ Any subcontractors used on this project will be required to carry their own workers' compensation coverage.
SignatureDateName (Please Print)	and the state of the country of the third the third that the contractor to a stop-work of the filles and
Name (Please Print)	My signature on behalf of or as the contractor as stated on this form constitutes my verification that the statements contained here are true.
	SignatureDate
Cell Phone Number	Name (Please Print)
	Cell Phone Number

SWIMMING POOL, HOT TUB AFFIDAVIT

As the owner/contractor of the	ne property located at	
I am aware of, and I have reand safety devices of a swim Uniform Construction Code.		
I take full responsibility, as the permit for the pool and fence be appropriately protected by during and after construction	enclosure is obtained and t a code compliant construct	hat the pool or spa shall
A swimming pool, hot tub or s Township has granted all fina approvals.		
All approved inspections and the swimming pool, hot tub.	occupancy permit must be o	obtained prior to use of
Above ground pools require, Electrical rough and final insp Final building inspection.	ections	
In-ground pools require, Electrical rough and final insp Electrical bonding inspection I Final building inspection include fence pool barrier.	before concrete is poured	alarms, and gates,
l am aware that all future addi fence, etc. always requires a b		
Owner Name (print)	Signature	Date
Owner Name (print)	Signature	Date
Contractor Name (print)	Signature	Date

Township of Moon 1000 Beaver Grade Road; Moon Twp., PA 15108

New Fee Schedule Effective January, 2017

ELECTRICAL INSPECTION FEE SCHEDULE

All Electrical Permit Applications must be accompanied with a check

RESIDENTIAL FEES (Two Trip Maximum)

Residential Flat Rate, New Construction. (Up to 200A)	\$229.00
Residential Flat Rate, New Construction. (Over 200A to 400A)	\$354.00
Residential Additions with or without Svcs. up to 200 A	\$154.00
Services & Sub-panels up to 200A (One trip only)	\$79.00
Minimum Trip & Re-inspection fee (One trip only)	\$79.00
Temporary Service Inspection up to 200A (One trip only)	\$79.00
Services over 200A and up to 400A (One trip only)	\$104.00
Residential Alterations up to 15 outlets & Svcs. to 200A (One trip only)	\$94.00
Hot Tubs (One trip only)	\$89.00
Photo Voltaic Systems up to 5 KW (Two trips only)	\$254.00
Above Ground Swimming Pools (One trip only)	\$89.00
In Ground Swimming Pools (Two trips only)	\$179.00
(Swimming Pool panels and/or pool houses are extra, use above fees)	
FEES OTHER THAN RESIDENTIAL	
Services & Sub-panels up to 200A	\$79.00
Temporary Service Inspection up to 200A (One trip only)	\$79.00
Services & Sub-panels over 200A and up to 400A	\$104.00
Each Additional 100A over 400A	\$20.00
1-50 Outlets Switches, receptacles, lighting, etc. (Rough & Final)	7
	\$154.00
Each Electrical Outlet or Device Over 50	•
Each Electrical Outlet or Device Over 50	\$154.00
Each Electrical Outlet or Device Over 50	\$154.00 \$0.75
Each Electrical Outlet or Device Over 50	\$154.00 \$0.75 \$30.00
Each Electrical Outlet or Device Over 50	\$154.00 \$0.75 \$30.00 \$1.00
Each Electrical Outlet or Device Over 50	\$154.00 \$0.75 \$30.00 \$1.00 \$154.00 \$0.75 \$89.00

Electrical Inspections are available on Monday's, Wednesday's & Friday's.

NOTE: Inspections <u>WILL NOT</u> be performed until the application(s) are filed, AND the appropriate fees are submitted. **ABSOLUTELY NO EXCEPTIONS.** If you have any questions, contact Moon Twp. at 412-262-1700 or the Main Office at 412-766-2565.

Permit Fee	Permit No.
Receipt No.	Permit Approved By

ELECTRICAL PERMIT APPLICATION

TOWNSHIP OF MOON 1000 BEAVER GRADE ROAD MOON TOWNSHIP, PA 15108 (412) 269-2836 FAX (412) 262-5344 1-800-922-6062 (412) 563-3006

Duniant Addunan					
Project Address:	(No.)	(Street)	(City)	(State)	(Zip)
Subdivision:				Lot No	
Applicant's Name:				Phone: ()	
		(Name)			
(Mailing Address)	(No.)	(Street)	(City)	(State)	(Zip)
Landowner's Name:			——————————————————————————————————————	Phone: ()	
		(Name)			
(Mailing Address)	(No.)	(Street)	(City)	(State)	(Zip)
Occupant's Name:	www.maranananananananananananananananananana			Phone: ()	
÷		(Name)			
(Mailing Address)	(No.)	(Street)	(City)	(State)	(Zip)
Contractor's Name: _				Phone: ()	
		(Name)			
(Mailing Address)	(No.)	(Street)	(City)	(State)	(Zip)
Type of Improvements	•				
☐ Repair/Replace	P New Co	onstruction	n ☐ Alterat	tion	
Description of work (v	viring, equipment	t, data, service size, number	switching, lighting	, receptacles, etc.)	
<u></u>					
		g se			*
Current and former us	e of property in	detaii (residentiai, commer	ciai, industriai, sch	ool, church, office, etc.):	
The Applicant/Owner b	avabu aavtitiaa the	at the atataments made has	rain and range ante	ations contained in all accomp	anvine metter part of th
				ations contained in all accomp ng and fully understanding all l	
				all also be responsible for any	
				Twp. Officials the right to enter tify that proposed work is auth	
		ne owner to make this applic			sinzed by the owner of
Signade					
Signed:		Applicant			Date
Signed:		500 T			
		Owner			Date

ELECTRICAL WIRING REQUIREMENTS FOR ABOVE GROUND SWIMMING POOLS

ANY POOL HOLDING WATER IN A DEPTH GREATER THAN 1.0 m (42 in.) IS TO BE CONSIDERED A PERMANENTLY INSTALLED POOL.

2001 Pump Receptacle Outlet and Wiring Method

- A) Receptacle(s) that provide power for water-pump motors or for other loads directly related to the circulation and anitation system shall be located at least 3.0 m (10 ft) from the inside walls of the pool, or <u>not less than</u> 1.83 m (6 ft) rom the inside walls of the pool if they meet all of the following conditions:
- 1) Consist of single receptacle(s)
- 2) Employ a locking configuration (Twist-lock)
- 3) Are of the grounding type
- !) Have GFCI protection
- 3) Receptacle(s) must have an (in-use) weatherproof cover that can be <u>closed</u> when plugged in.
- conductors for pool-associated motors shall be installed in rigid metal conduit, intermediate metal conduit, rigid nametallic conduit (PVC), reinforced thermosetting resin conduit, or Type <u>MC cable listed for swimming pools.</u> Any iring method employed shall contain an insulated copper equipment grounding conductor sized in accordance with 50.122 but not smaller than 12 AWG. The pump motor plug and cord that comes with the pump may be for testing <u>riposes only and not a listed cord & plug.</u> UL does not always test and list the cord and plug, only the pump motor. perefore, you must purchase a twist-lock plug & a <u>'hard usage'</u> cord with a #12 insulated grounding conductor listed wet locations. The cord & plug shall not exceed 3 ft. in length. See Articles 680.21(5) and 680.25 (1).
- The equipment grounding conductor must have a green insulated covering. Article 680.21(A) (1) of the NEC ecifies that the grounding conductor for the pool pump, must be insulated and Article 250.119 identifies it to be sen in color. (Therefore, YOU CANNOT USE UF CABLE FOR THE POOL PUMP.) It does not employ a green sulated equipment grounding conductor but instead a bare equipment grounding conductor.
-) Article 310.8 specifies the type of conductors for wet locations. They shall be any of the below listed types: pes MTW, RHW-2, TW, THW, THW-2, THHW, THHW-2, THWN, THWN-2, XHHW, XHHW-2, ZW, etc.
- Depth of trench for the branch circuits
- Article 680.10. The branch circuit conductors listed above and the raceways must buried at least 18" deep. ception: 1&2 Family dwellings. When rated 120 Volts or Less with GFCI Protection and a maximum overcurrent tection of 20 Amperes based on Table 300.5, Column 4 of the 2008 NEC Handbook Commentary.
- Vietal All Rigid Metal Conduit must be at least 6" deep.

nvenience Receptacle(s)

- It least one (1) convenience receptacle, other than the pool pump receptacle, must be installed between 6' and 20' asured from the inside wall of the pool. It cannot be on the same circuit with the pump motor.
- Convenience receptacle(s) must be GFCI protected. (Tamper & weather resistant. Art. 406.11; 406.8(A)(B)(1).
- lust have an in-use weatherproof cover where exposed to the weather.
- Viring Method: (YOU CAN USE UF CABLE FOR THE CONVENIENCE RECEPTACLE.)
- IF cable Rated 120 Volts or Less, that is GFCI protected and that has a maximum recurrent protection of 20 Amperes or less based on Table 300.5, Column 4 of the 2008 NEC can be buried at least deep.
- F cable not GFCI Protected must be buried 18 inches deep.
- letal All Rigid Metal Conduit must be buried no less than 6" deep.
- e: In addition to the above NEC wiring methods, the PA energy code requires that a timer be installed for pool pump motor. Check with the Building Inspector in the community.

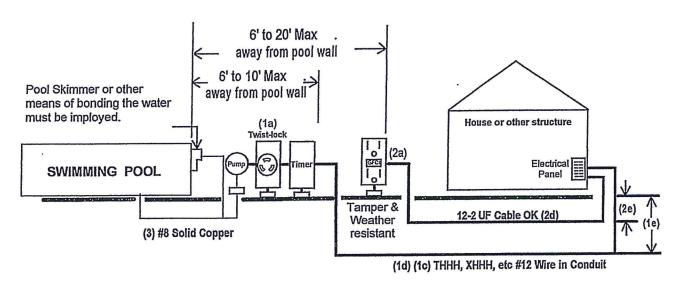
Bonding of all metallic parts if applicable

- a. All metal parts must be bonded together using a #8 (or larger) solid copper wire.
- b. You must use non-corrosive clamps listed and stamped on the connectors.
- c. Pool Water. An intentional bond of a minimum conductive surface area of 9 square inches shall be installed in contact with the pool water. This bond shall be permitted to consist of parts that are required to be bonded in Article 680.26(B).

YOU DO NOT NEED TO INSTALL GROUND RODS OR RUN THE #8 BONDING CONDUCTOR BACK TO THE SERVICE PANEL OR SUB-PANEL.

FOR ILLUSTRATED PURPOSES ONLY

Your situation may be different



- 1a. Single twist-lock receptacle in a weather-proof box with an "in-use cover.
- 1e. The minimum depth of trench: 18 IN deep. (Unless based on table 300.5 for 1&2 family dwellings.) Conductor types are: THHW, THWN, THWN-2, XHHW, or other approved conductors. See Article 310.8(C)(2.) They are to be Black, (or other color to identify the ungrounded conductor), white (grounded conductor) and green (an insulated equipment conductor). You CAN reidentify any color conductor for the ungrounded conductor (hot) and grounded conductor (neutral) with tape. (See Article 200.6) But you CANNOT reidentify the equipment grounding conductor. It must be green throughout its entire length. (See Article 250.119)
- 2 a. Convenience receptacle(s) GFCI protected in a weather-proof box with an "in-use cover." (Tamper resistant & weather resistant. Art. 406.11; 406.8(A)(B)(1).
- 2 d&e. At least one Convenience receptacle must be installed using UF cable or other approved wiring method. The trench can be a minimum of 12" deep when rated 120 Volts or less with GFCI protection and a maximum overcurrent protection of 20 Amperes. NEC Table 300.5, Column 4. (For 12 Inch burial depth, the conductors must be GFCI protected at the house, if they are not GFCI protected, the burial depth must be at least 18 inches.)
- 3. Minimum #8 (or larger) solid copper conductor for bonding purposes.

The above swimming pool rules are based on the 2008 National Electrical Code. Some rules are paraphrased for clarification. If you are installing electrical wiring in addition to the above requirements or do not fully understand these regulations, please refer to Article 680 in the 2008 NEC.

CODE REQUIREMENTS FOR SWIMMING POOLS

Localities in Pennsylvania enforce the regulations established by the Pennsylvania Uniform Construction Code, PA UCC regarding the installation, use and maintenance of all swimming pools, hot tubs and spas for both private and public residential and commercial pools.

No persons shall begin construction of a swimming pool nor substantially alter or reconstruct any swimming pool without having first submitted construction plans and specifications to the local building department for review and approval. No work shall be commenced until having first obtained the required permits for the pool, electrical work, mechanical work and fence or barrier protection as required by the regulations.

It is unlawful for any person to construct, maintain, use, possess or control any swimming pool not properly protected by a permanent fence or barrier in accordance with the regulations regardless of the date of construction. Any person who shall violate any provisions of the regulations may be subject to legal action as allowed by the PA UCC.

PERMITS:

A building permit is required for installing all new pools, hot tubs, and spas. An electrical permit is required for any electrical circuits or electrical work added for the pool and a gas or mechanical permit is required for pool heaters or other mechanical equipment for the pool.

The property owner is responsible for ensuring the pool is properly protected by a fence or barrier meeting code requirements during construction and after completion and approval. In addition, any fence erected must be constructed with the "finished side" facing outward towards surrounding properties or right-of-way.

PA ONE CALL SYSTEM Call: "811"

STOP-CALL BEFORE YOU DIG

APPENDIX G

SWIMMING POOLS, SPAS AND HOT TUBS

(The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.)

SECTION AG101 GENERAL

AG101.1 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.

AG101.2 Pools in flood hazard areas. Pools that are located in flood hazard areas established by Table R301.2(1), including above-ground pools, on-ground pools and in-ground pools that involve placement of fill, shall comply with Sections AG101.2.1 or AG101.2.2.

Exception: Pools located in riverine flood hazard areas which are outside of designated floodways.

AG101.2.1 Pools located in designated floodways. Where pools are located in designated floodways, documentation shall be submitted to the *building official*, which demonstrates that the construction of the pool will not increase the design flood elevation at any point within the *jurisdiction*.

AG101.2.2 Pools located where floodways have not been designated. Where pools are located where design flood elevations are specified but floodways have not been designated, the applicant shall provide a floodway analysis that demonstrates that the proposed pool will not increase the design flood elevation more than 1 foot (305 mm) at any point within the *jurisdiction*.

SECTION AG102 DEFINITIONS

AG102.1 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. A fence, wall, building wall or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

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 *town-house* 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.

SWIMMING POOL. Any structure intended for swimming or recreational bathing that contains water over 24 inches (610

mm) deep. This includes in-ground, above-ground and on-ground swimming pools, hot tubs and spas.

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 AG103 SWIMMING POOLS

AG103.1 In-ground pools. In-ground pools shall be designed and constructed in conformance with ANSI/NSPI-5 as listed in Section AG108.

AG103.2 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.

AG103.3 Pools in flood hazard areas. In flood hazard areas established by Table R301.2(1), pools in coastal high hazard areas shall be designed and constructed in conformance with ASCE 24.

SECTION AG104 SPAS AND HOT TUBS

AG104.1 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.

AG104.2 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 AG105 BARRIER REQUIREMENTS

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

AG105.2 Outdoor swimming pool. An outdoor 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:

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).

- Openings in the barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.
- 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.
- 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).
- 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 Section AG105.2, Items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:
 - 8.1. The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate; and

- 8.2. The gate and barrier shall have no opening larger than $\frac{1}{2}$ 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:
 - 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 <u>UL_2017</u>. 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 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.

AG105.3 Indoor swimming pool. Walls surrounding an indoor swimming pool shall comply with Section AG105.2, Item 9.

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

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

SECTION AG106 ENTRAPMENT PROTECTION FOR SWIMMING POOL AND SPA SUCTION OUTLETS

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

SECTION AG107 ABBREVIATIONS

AG107.1 General.

ANSI—American National Standards Institute 11 West 42nd Street New York, NY 10036

APSP—Association of Pool and Spa Professionals NSPI—National Spa and Pool Institute 2111 Eisenhower Avenue Alexandria, VA 22314

ASCE—American Society of Civil Engineers 1801 Alexander Bell Drive Reston, VA 98411-0700

ASTM—ASTM International 100 Barr Harbor Drive, West Conshohocken, PA 19428

UL—Underwriters Laboratories, Inc. 333 Pfingsten Road Northbrook, IL 60062-2096

SECTION AG108 STANDARDS

AG108.1 General.

ANSI/NSPI

ANSI/APSP

ASCE

ASTM

UL

 N1103.8 Pools. Pools shall be provided with energy conserving measures in accordance with Sections N1103.8.1 through N1103.8.3.

N1103.8.1 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.

N1103.8.2 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.

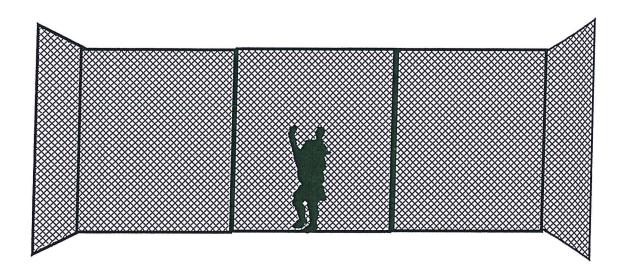
Exceptions:

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

N1103.8.3 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.

MOON TOWNSHIP PENNSYLVANIA

Swimming Pool, Hot Tub and Spa Permit Building Code Guidelines



KEEP YOUR POOL SAFE

CODE REQUIREMENTS FOR SWIMMING POOLS

Localities in Pennsylvania enforce the regulations established by the Pennsylvania Uniform Construction Code, PA UCC regarding the installation, use and maintenance of all swimming pools, hot tubs and spas for both private and public residential and commercial pools.

No persons shall begin construction of a swimming pool nor substantially alter or reconstruct any swimming pool without having first submitted construction plans and specifications to the local building department for review and approval. No work shall be commenced until having first obtained the required permits for the pool, electrical work, mechanical work and fence or barrier protection as required by the regulations.

It is unlawful for any person to construct, maintain, use, possess or control any swimming pool not properly protected by a permanent fence or barrier in accordance with the regulations regardless of the date of construction. Any person who shall violate any provisions of the regulations may be subject to legal action as allowed by the PA UCC.

PERMITS:

A building permit is required for installing all new pools, hot tubs, and spas. An electrical permit is required for any electrical circuits or electrical work added for the pool and a gas or mechanical permit is required for pool heaters or other mechanical equipment for the pool.

The property owner is responsible for ensuring the pool is properly protected by a fence or barrier meeting code requirements during construction and after completion and approval. In addition, any fence erected must be constructed with the "finished side" facing outward towards surrounding properties or right-of-way.

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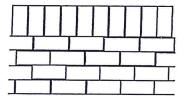
Outdoors private swimming pools, including in-ground, aboveground or on-ground pools, hot tub or spa shall be provided with a barrier. Access gates for private pools shall be equipped to accommodate a locking device.

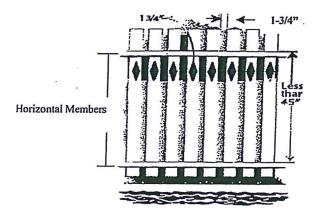
Swimming Pool Barrier Guidelines

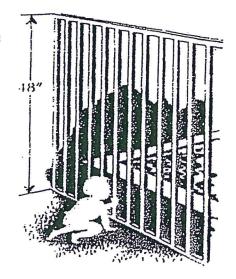
A successful pool barrier prevents a child from getting OVER, UNDER, or THROUGH and keeps the child from gaining access to the pool except when supervising adults are present. A young child can get over a pool barrier if the barrier if the barrier is too low or if the barrier has handholds or footholds for a child to use when climbing.

The top of a pool barrier must be at least 48 inches above grade, measured on the side of the barrier which faces away from the swimming pool.

For a Solid Barrier: no indentations or protrusions shall be present, other than normal construction tolerances and masonry joints.





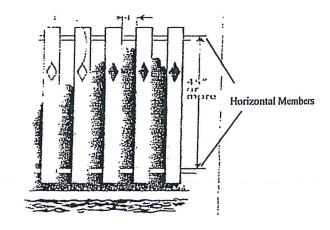


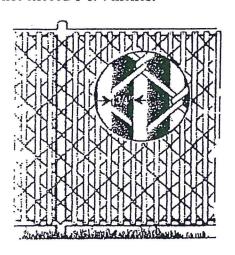
Barriers (Fences) Made Up of Closely Spaced Horizontal Members:

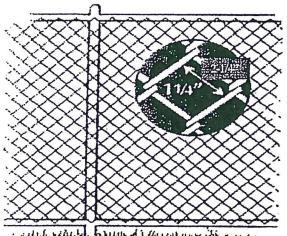
If the distance between the tops of the horizontal members is <u>less than</u> 45 inches, the horizontal members shall be on the swimming pool side of the fence. The spacing of the vertical members shall not exceed 1-3/4 inches. This size is based on the foot width of a young child and is intended to reduce the potential for a child to gain a foothold. If there are any decorative cutouts in the fence, the space within the cutouts shall not exceed 1-3/4".

Barriers (Fences) Made Up of Widely Spaced Horizontal Members

If the distance between the tops of horizontal members is <u>more than</u> 45 inches, the horizontal members may be on the side of the fence facing away from the pool. The spacing between vertical members should not exceed 4 inches. This size is based on the head breadth and chest depth of a young child and is intended to prevent a child from passing through an opening. Again, if there are any decorative cutouts in the fence, the space within the cutouts shall not exceed 1-3/4 inches.

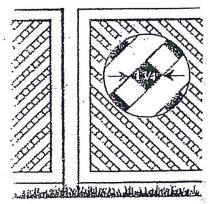






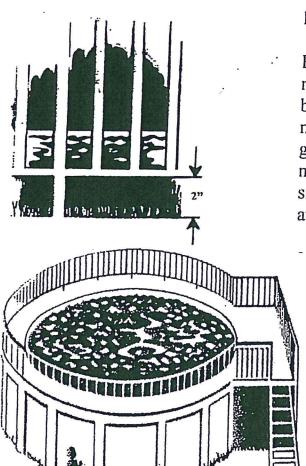
Barriers Made of Chain Link Fence

The mesh size shall not exceed 2-1/4 inches square unless slats, fastened at the top or bottom of the fence, are used to reduce mesh openings to no more than 1-3/4 inches.



Barriers Fences Made Up of Diagonal Members (Latticework)

The maximum opening in the lattice should not exceed 1-3/4 inches.

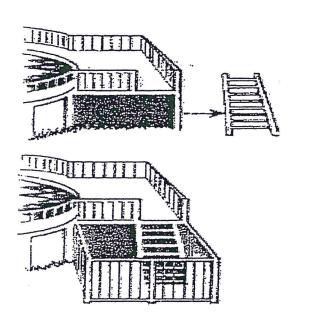


In-ground Pools

For any pool barrier, the maximum clearance at the bottom of the barrier shall not exceed <u>2 inches</u> above grade, when the measurement is done on the side of the barrier facing away from the pool.

Aboveground Pools

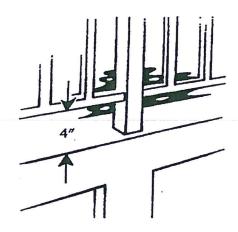
Aboveground pools shall have barriers. The pool structure itself may serve as a barrier fence or a barrier is mounted on top of the pool structure.



The steps or ladder can be designed to be secured, locked or removed to prevent access, or a barrier such as those described above can surround the steps or ladder.

ABOVEGROUND POOL WITH BARRIER ON TOP OF POOL

If an <u>aboveground</u> pool has a barrier on the top of the pool, the maximum vertical clearance between the top of the pool and the bottom of the barrier shall not exceed <u>4</u> inches.



GATES

There are two kinds of gates, which might be found on residential property. Both can play a part in the design of a swimming pool barrier.

PEDESTRIAN GATES

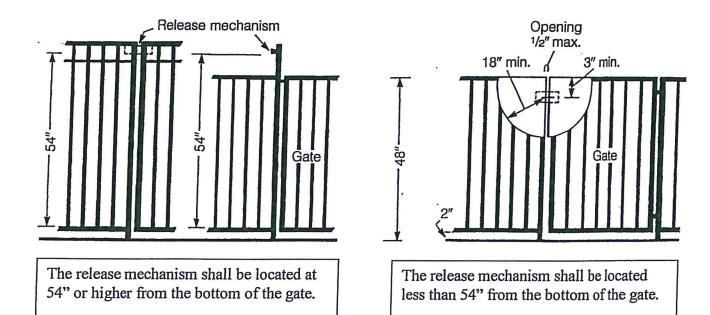


These are the gates people must walk through. Swimming pool barriers should be equipped with a gate or gates, which restrict access to the pool. A locking device must be included in the gate design. Pedestrian gates must open outward and away from the pool and shall be self-closing and self-latching.

If a gate is properly designed, even if the gate is not completely latched, a young child pushing on the gate in order to enter the pool area will at least close the gate and may actually engage the latch.

Where the release mechanism of the self-latching device is <u>less than</u> 54 inches from the bottom of the gate, the release mechanism for the gate shall be located on the pool side of the gate and be at least 3 inches below the top of the gate on the side facing the pool. Placing the release mechanism at this

height prevents a young child from reaching over the top of a gate and releasing the latch. Gate latches installed in this manner shall have no openings greater than ½ inch with 18 inches of the latch release mechanism. This prevents a young child from reaching through the gate and releasing the latch.



ALL OTHER GATES (Vehicle Entrances, ETC.)

Other gates must be equipped with self-latching devices. The self-latching devices must be installed as described for pedestrian gates.

WHEN THE HOUSE WALL FORMS PART OF THE POOL BARRIER

In many homes, doors open directly onto the pool area or onto a patio, which leads to the pool.



In such cases, the wall of the house is an important part of the pool barrier, and passage through any doors in the house wall must be controlled by one of the following security measures.

1) All doors, which give direct access to a swimming pool, must be equipped with an audible alarm, which sounds when the door and/or screen are opened. The alarm must sound for 30 seconds or more immediately after the door is opened. The alarm must be capable of being heard throughout the house during normal household activity. (The alarm sound should be distinct from other sounds in the house, such as the telephone, doorbell and smoke alarm.) The alarm must have an automatic reset feature.

Because adults will want to pass through house doors in the pool barrier without setting off the alarm, the alarm must have a switch that allows adults to temporarily deactivate the alarm for up to a maximum of 15 seconds. The deactivation switch could be a touchpad (keypad) or a manual switch, and must be located at least 54 inches above the threshold of the door covered by the alarm.

- 2) Pools equipped with a powered safety cover which complies with ASTM F1346 or
- 3) Other means of protection approved by the building official.

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