



Attachment F: Residential Swimming Pool & Hot Tubs

Section F1: Supplemental Questions

1. Will the pool or hot tub be supplied with a cover? Yes No
2. If a cover is provided, which type? Manual Electric
3. Height of proposed fence (from outside at the lowest point). _____
4. Distance from grade to the bottom of the proposed fence. _____
5. Maximum opening in fence structure. _____

Section F2: Required Attachments

1. Please attach two (2) copies of assembled and bound sets building plans and specifications.
2. Please attach two (2) copies of plot plans.

Section F3: Inspection Schedule Acknowledgement

The issuance of this building permit requires you to comply with all provisions set forth in the Uniform Construction Code. Listed below are the stages of construction when the East Brandywine Township Codes Official must be notified. Inspections must be scheduled twenty-four (24) hours in advance. Failure to notify the township before proceeding to the next step will result in a stop work order. All inspections are scheduled by Township Staff at (610) 269-8230. Approved plans and specifications must be available on site at all times.

SWIMMING POOL INSPECTIONS

1. SETBACK INSPECTION

Inspection will be made checking location of the pool prior to excavation. Stakes or batter boards must be in place and property lines and corners clearly marked. Mark the pool area and property lines so the setbacks may be measured. Erosion and Sedimentation (E&S) controls and rock construction entrance shall be installed at this time.

2. ELECTRIC INSPECTION

All electrical inspections must be performed by CEDARVILLE Engineering.

3. STEEL AND BONDING INSPECTION

Once the steel has been set and the bonding inspection is completed an inspection may be scheduled. **Proof of passed electrical inspection (if applicable) must be on site at the time of the steel and bonding inspection.**

4. FINAL INSPECTION

Once the pool and required barrier(s) are completed an inspection may be scheduled. Proof of final electrical inspection should be on equipment/electrical panel. If you home acts as part of the barrier make sure the approved door alarms are installed on all doors leading to the pool area.

HOT TUB INSPECTIONS

1. SETBACK INSPECTION

Inspection will be made checking location of the hot tub prior to it being delivered. Mark out the hot tub area and property lines so the setback may be measured.

2. ELECTRICAL INSPECTION

All electrical inspections must be performed by CEDARVILLE Engineering.

3. FINAL INSPECTION

Once the hot tub is placed and the final electrical inspection is completed a final may be scheduled. Proof of final electrical inspection shall be placed on the equipment/electrical panel.

No swimming pool or hot tub may be used until the issuance of a Use and Occupancy Permit.

As per resolution number 06-11, the Township will bill the homeowner \$80.00 per inspection for additional inspections requested by a builder or homeowner, or for any re-inspections required due to failures of initial inspections.

To avoid this billing, if you know that you are not going to be ready for an inspection, you must call the Township at least one (1) hour prior to the scheduled inspection to cancel or to re-schedule.

I hereby acknowledge receipt of a copy of this form and Appendix G of the International Residential Code.

Applicant

Date

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 *townhouse* not more than three stories in height.

SPA, NONPORTABLE. See "Swimming pool."

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

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(I), 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:

1. The top of the barrier shall be at least 48 inches (1219 mm) above *grade* measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of

- the barrier shall be 2 inches (51 mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an above-ground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).
2. Openings in the barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.
 3. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
 4. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed $1\frac{3}{4}$ inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed $1\frac{3}{4}$ inches (44 mm) in width.
 5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed $1\frac{3}{4}$ inches (44 mm) in width.
 6. Maximum mesh size for chain link fences shall be a $2\frac{1}{4}$ -inch (57 mm) square unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than $1\frac{3}{4}$ inches (44 mm).
 7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than $1\frac{3}{4}$ inches (44 mm).
 8. 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:
 - 9.1. The pool shall be equipped with a powered safety cover in compliance with ASTM F 1346; or
 - 9.2. Doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door and/or its screen, if present, are opened. The alarm shall be listed and *labeled* in accordance with UL 2017. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or
 - 9.3. Other means of protection, such as self-closing doors with self-latching devices, which are *approved* by the governing body, shall be acceptable as long as the degree of protection afforded is not less than the protection afforded by Item 9.1 or 9.2 described above.
 10. Where an above-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps:
 - 10.1. The ladder or steps shall be capable of being secured, locked or removed to prevent access; or
 - 10.2. The ladder or steps shall be surrounded by a barrier which meets the requirements of 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 ASTM F 1346, 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

AGI07.1 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

AGI08.1 General.

ANSI/NSPI

ANSI/NSPI-3-99 Standard for
Permanently Installed Residential Spas AG 104.1

ANSI/NSPI-4-99 Standard for Above-ground
On-ground Residential Swimming Pools AG 103.2

ANSI/NSPI-5-2003 Standard for
Residential In-ground Swimming Pools AG 103.1

ANSI/NSPI-6-99 Standard for
Residential Portable Spas AG 104.2

ANSI/APSP

ANSI/APSP-7-06 Standard for Suction Entrapment
avoidance in Swimming Pools, Wading Pools, Spas,
Hot Tubs and Catch Basins AG 106.1

ASCE

ASCE/SEI-24-05 Flood Resistant
Design and Construction AG 103.3

• ASTM

ASTM F 1346-91 (2003) Performance
Specification for Safety Covers and Labeling
Requirements for All Covers for Swimming Pools,
Spas and Hot Tubs AG105.2,AG105.5

UL

UL 2017-2000 Standard for General-purpose
Signaling Devices and Systems-with Revisions
through June 2004 AG 105.2