



MEMORANDUM

Date: November 26, 2018
To: Swimming Pool Contractors
From: Allen Turner, Inspection Chief Building Safety & Permits
Subject: Required inspections - Preformed Fiberglass Shell Inground Pool

Preformed Fiberglass Shell Inground Pool Required Inspections

- **Approved Plans**-All approved construction documents must be on site for all inspections.
- **Footing Inspection**-To be made after pool shell is set in place but BEFORE backfilling. Backfill material must be on site and must be the same as specified in the approved construction documents.
- **Drain Pipe**-Where required by the pool manufacturer or soil type, inspection of the drain pipe/sump pump piping must be installed and ready for inspection at time of footing inspection.
- **Bonding Inspection 1**- All metal parts within 5' of pool including but not limited to metal coping, bracing, rebar, fences, gutters, pool covers, window, doors, wire mesh, handrails, diving boards, niche light exterior shells, etc. must be bonded as part of the equipotential bonding system per NEC 680.26
- **Bonding Inspection 2**-Where the pool decking consists of rebar or welded wire mesh reinforcement, a min. #8 solid copper must be attached with an approved connector and made part of the equipotential bonding system per NEC 680.26. Where no reinforcing steel or wire mesh is used in the pool decking, an alternate means consisting of a solid #8 copper encircling the pool 18-24" horizontally from the inside wall of the pool and 4-6" below subgrade shall be installed. This #8 solid copper shall extend to the pool motor lug as well as any other pool related equipment lugs. Bonding of the pool water is also required per NEC 680.26(c).
- **Bonding Inspection 3**-(BEFORE ANY WATER IS IN POOL) Wet niche light encapsulation inspection after #8 copper THWN is installed and terminated inside the shell, encapsulated with a listed potting compound. Per NEC 680.23 (B) 2
- **Electrical Trench Inspection**-To be made after all underground wiring/conduits are installed but BEFORE backfilling. NEC 680
- **Electrical Final Inspection**-After all bonding is completed and electrical equipment is 100% complete and functional. Contractor/Rep. must be on site to turn on breakers, lights, motors etc. so that GFCI operation can be verified. Note a pool pump timer is also required.
- **Building Final Inspection**-To be made after or simultaneous with the Electrical Final inspection and ALL barriers are installed including gates, door and window alarms (must be listed in accordance with UL 2017) where required by ISPSC 305
- Section 15.2-921 of the Virginia Code gives localities the explicit authority to enact an ordinance requiring fencing of swimming pools, JCC County Code Section 15-28 It shall be unlawful for any person in any area zoned for residential use to: Construct, maintain, use, possess or control any swimming pool without having completely around such swimming pool a FENCE as hereinafter defined; or Construct, maintain, use, possess or control any gate in such fence which is not capable of being securely fastened at a height of not less than four feet above ground level.
- **Note that this document does not contain all code requirements and is intended solely to facilitate the inspection sequence**

MEMORANDUM

Date: November 26, 2018
To: Swimming Pool Contractors
From: Allen Turner, Inspection Chief Building Safety & Permits
Subject: Required inspections - Vinyl Liner Inground Pool

Vinyl Liner Inground Pool Required Inspections

- **Approved Plans**-All approved construction documents must be on site for all inspections.
- **Footing Inspection**-To be made after pool wall frame is installed and braced but BEFORE concrete hold down apron is poured or concealed. If METAL stakes are used for bracing etc. they must be bonded to the equipotential bonding system per NEC 680.26.
- **Drain Pipe**-Where drain piping is required by the pool manufacturer or soil type/approved plans, inspection of the drain pipe/sump pump piping is required prior to concealment.
- **Bonding Inspection 1**- All metal parts within 5' of pool including but not limited to metal coping, bracing, rebar (including metal stakes), fences, gutters, pool covers, window, doors, wire mesh, handrails, diving boards, niche light exterior shells, etc. must be bonded as part of the equipotential bonding system per NEC 680.26
- **Bonding Inspection 2**-Where the pool decking consists of rebar or welded wire mesh reinforcement, a min. #8 solid copper must be attached with an approved connector and made part of the equipotential bonding system per NEC 680.26. Where no reinforcing steel or wire mesh is used in the pool decking, an alternate means consisting of a solid #8 copper encircling the pool 18-24" horizontally from the inside wall of the pool and 4-6" below subgrade shall be installed. This #8 solid copper shall extend to the pool motor lug as well as any other pool related equipment lugs. Bonding of the pool water is also required per NEC 680.26(c).
- **Bonding Inspection 3**-(BEFORE ANY WATER IS IN POOL) Wet niche light encapsulation inspection after #8 copper THWN is installed and terminated inside the shell, encapsulated with a listed potting compound. Per NEC 680.23 (B) 2
- **Electrical Trench Inspection**-To be made after all underground wiring/conduits are installed but BEFORE backfilling. NEC 680
- **Electrical Final Inspection**-After all bonding is completed and electrical equipment is 100% complete and functional. Contractor/Rep. must be on site to turn on breakers, lights, motors etc. so that GFCI operation can be verified. Note a pool pump timer is also required.
- **Building Final Inspection**-To be made after or simultaneous with the Electrical Final inspection and ALL barriers are installed including gates, door and window alarms (must be listed in accordance with UL 2017) where required by ISPSC 305
- Section 15.2-921 of the Virginia Code gives localities the explicit authority to enact an ordinance requiring fencing of swimming pools, JCC County Code Section 15-28 It shall be unlawful for any person in any area zoned for residential use to: Construct, maintain, use, possess or control any swimming pool without having completely around such swimming pool a FENCE as hereinafter defined; or Construct, maintain, use, possess or control any gate in such fence which is not capable of being securely fastened at a height of not less than four feet above ground level.
- **Note that this document does not contain all code requirements and is intended solely to facilitate the inspection sequence.**

MEMORANDUM

Date: November 26, 2018
To: Swimming Pool Contractors
From: Allen Turner, Inspection Chief Building Safety & Permits
Subject: Required inspections - Above Ground Pool

Above Ground Pool Required Inspections

- **Approved Plans**-All approved construction documents must be on site for all inspections.
- **Electrical Trench Inspection**- To be made after all underground wiring/conduits are installed but BEFORE backfilling. Note that pool pump wiring must be in an approved raceway/conduit and suitable for wet locations. Note that the underground GFCI protected pump circuit must have an insulated ground AND be in an approved raceway per NEC 680
- **Bonding Inspection**-All of the following must be bonded as part of the equipotential bonding system with a #8 solid copper conductor: Metal parts of the pool, pool water, pool pump motor and associated equipment. In addition all metal fittings, metal fences, window frames, gutters, metal ladders, etc. located within 5' horizontally of the inside of the pool wall shall be bonded to the equipotential bonding system with a #8 solid copper conductor. This bonding system shall include a perimeter surface bond ring encircling the pool 18-24" horizontally from the pool wall and 4-6" below subgrade.
- **Electrical Final Inspection**-To be made after all electrical work is completed and ready for testing.
- **Building Final Inspection**- To be made after or simultaneous with the Electrical Final inspection. Pool wall must be a min. 48" above final grade. Measure from high side of slopes. If not, must have alternate barrier. per ISPSC 305.2.1
The 48" min. height must be maintained for at least 3 feet around the entire barrier. Per ISPSC 305.2.1
- ALL alternate barriers including gates, door and window alarms (must be listed in accordance with UL 2017) where required by ISPSC 305
- Pool ladder must be removable or lockable Per ISPSC 305.5
- Pool ladder must have a physical barrier to prevent children from swimming between risers and behind the ladder ISPSC 702.2.1
- **Note that this document does not contain all code requirements and is intended solely to facilitate the inspection sequence.**

MEMORANDUM

Date: November 26, 2018
To: Swimming Pool Contractors
From: Allen Turner, Inspection Chief Building Safety & Permits
Subject: Required inspections - Concrete Inground Pool

Concrete Inground Pool Required Inspections

- **Approved Plans**-All approved construction documents must be on site for all inspections.
- **Footing Inspection**-To be made after excavation and pool reinforcing steel is installed but BEFORE concealed with shotcrete, etc. All bonding conductors that are to be concealed at this point must be inspected AND approved BEFORE concealing. See below.
- **Drain Pipe**-Where required by the pool manufacturer or soil type, inspection of the drain pipe/sump pump piping must be installed and ready for inspection at time of footing inspection.
- **Bonding Inspection 1**- All metal parts within 5' of pool including but not limited to metal coping, bracing, rebar, fences, gutters, pool covers, window, doors, wire mesh, handrails, diving boards, niche light exterior shells, etc. must be bonded as part of the equipotential bonding system per NEC 680.26
- **Bonding Inspection 2**-Where the pool decking consists of rebar or welded wire mesh reinforcement, a min. #8 solid copper must be attached with an approved connector and made part of the equipotential bonding system per NEC 680.26. Where no reinforcing steel or wire mesh is used in the pool decking, an alternate means consisting of a solid #8 copper encircling the pool 18-24" horizontally from the inside wall of the pool and 4-6" below subgrade shall be installed and connected to the pool reinforcing steel at four uniform points around the perimeter of the pool. This #8 solid copper shall extend to the pool motor lug as well as any other pool related equipment lugs. Bonding of the pool water is also required per NEC 680.26(c).
- **Bonding Inspection 3**-(BEFORE ANY WATER IS IN POOL) Wet niche light encapsulation inspection after #8 copper THWN is installed and terminated inside the shell, encapsulated with a listed potting compound. Per NEC 680.23 (B) 2
- **Electrical Trench Inspection**-To be made after all underground wiring/conduits are installed but BEFORE backfilling. NEC 680
- **Electrical Final Inspection**-After all bonding is completed and electrical equipment is 100% complete and functional. Contractor/Rep. must be on site to turn on breakers, lights, motors etc. so that GFCI operation can be verified. Note a pool pump timer is also required.
- **Building Final Inspection**-To be made after or simultaneous with the Electrical Final inspection and ALL barriers are installed including gates, door and window alarms (must be listed in accordance with UL 2017) where required by ISPSC 305

Section 15.2-921 of the Virginia Code gives localities the explicit authority to enact an ordinance requiring fencing of swimming pools, JCC County Code Section 15-28 It shall be unlawful for any person in any area zoned for residential use to: Construct, maintain, use, possess or control any swimming pool without having completely around such swimming pool a FENCE as hereinafter defined; or Construct, maintain, use, possess or control any gate in such fence which is not capable of being securely fastened at a height of not less than four feet above ground level.

Note that this document does not contain all code requirements and is intended solely to facilitate the inspection sequence.