

SPA & HOT TUB INSTALLATION GUIDELINE

For One, Two, and Three Family Dwellings

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All requirements for spas and hot tubs located at one, two, and three-family dwellings are based on Article 680 of the 2023 National Electric Code (NEC) and the 2019 Residential Code of Ohio (RCO). Please note, this guideline **cannot** cover all possible requirements. Based on the type of installation, there may be additional electrical or building code requirements. Please call the Springboro Building Department at 937.748.9791 if you have any questions.

OVERHEAD CONDUCTOR CLEARANCES: No overhead conductors shall be installed within **22.5 feet** in any direction from the maximum water level. The **22.5 feet** clearance in any direction shall also apply to all areas extending 10 feet horizontally from the edge of the spa/hot tub.

SWITCHING DEVICES: Switching devices shall be located at least **5 feet** from the inside walls of a spa or hot tub unless separated by a solid fence, wall, or other permanent barrier. Alternatively, a switch that is listed as being acceptable for use within **5 feet** shall be permitted.

RECEPTACLES: No fewer than one 15- and 20-ampere, single phase, 125-volt receptacle on a general-purpose branch circuit shall be located not less than **6 ft.** and not more than **20 feet** from the inside walls of a spa or hot tub. All receptacles rated 125 volts through 250 volts, 60 amperes or less, located within 20 Ft. of the inside walls of the spa or hot tub shall have GFCI protection complying with 680.5(B) or SPGFCI protection complying with 680.5(C) complying with 680.5(C), as applicable.

LUMINAIRES, LIGHTING OUTLETS, AND CEILING-SUSPENDED (PADDLE) FANS: Shall the meet requirements of 680.22(B).

BONDING: Equipotential bonding is required per Article 680.26 NEC. Equipotential bonding of perimeter surfaces in accordance with Article 680.26(B)(2) **shall not be required** to be provided for spas and hot tubs **where ALL of the following conditions apply:**

1. The spa or hot tub shall be listed, labeled, and identified as a self-contained spa for aboveground use.
2. The spa or hot tub shall not be identified as suitable only for indoor use.
3. The installation shall be in accordance with the manufacturer's instructions and shall be located on or above grade.
4. The top rim of the spa or hot tub shall be at least 28 in. above all perimeter surfaces that are within 30 inches, measured horizontally from the spa or hot tub. The height of nonconductive external steps for entry to or exit from the self-contained spa shall not be used to reduce or increase this height measurement.

UNDERGROUND CONDUITS: Underground conduits shall be permitted where installed in rigid metal conduit, intermediate metal conduit, rigid polyvinyl chloride conduit, reinforced thermosetting resin conduit, or Type MC, suitable for the conditions subject to that location. Minimum cover depth shall be as given in Table 300.5 NEC.

WINDOWS: Windows **5 feet or less**, measured horizontally and in a straight line, from the water's edge of a spa or hot tub shall have safety glazing. This shall apply to single glazing and each pane in multiple glazing.

INDOOR INSTALLATIONS: Indoor installations shall meet Article 680.43 NEC.

REQUIRED INSPECTIONS: Bonding, electric trench, final electric, final building.

ALL ACCESS PANELS ARE TO BE REMOVED PRIOR TO FINAL ELECTRICAL INSPECTION BEING PERFORMED TO PROVIDE ACCESS TO ALL EQUIPMENT. IF ACCESS PANELS HAVE NOT BEEN REMOVED PRIOR TO THE INSPECTION, NO APPROVAL CAN BE GIVEN FOR USE OF THE SPA/HOT TUB AND A REINSPECTION WILL BE REQUIRED.