

SPA & HOT TUB INSTALLATION GUIDELINE

For One, Two, and Three Family Dwellings

All requirements for spas and hot tubs located at one, two, and three-family dwellings are based on Article 680 of the 2017 National Electric Code (NEC) and the 2017 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.

RECEPTACLE GFCI PROTECTION: All 15- and 20-ampere, single phase, 125-volt receptacles located within **20 feet** of the inside walls of a spa or hot tub shall be protected by a ground-fault circuit interrupter.

GFCI PROTECTION IN ADJACENT AREAS: Luminaires, lighting outlets, and ceiling-suspended (paddle) fans installed in the area extending between **5 feet** and **10 feet** horizontally from the inside walls of the spa or hot tub shall be protected by a ground-fault circuit interrupter unless installed not less than **5 feet** above the maximum water level and rigidly attached to the structure adjacent to or enclosing the spa or hot tub.

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.