

4. All other boat dock fixtures and/or receptacles shall be connected to the junction box/switch using the above referenced SOW cord (protected up to 8 feet in height) or THHN conductors placed in liquid tight non-metallic flex conduit with appropriate connectors. All junction boxes/receptacle boxes shall be a minimum of 24 inches off walking boards or the dock (metal boxes must be bonded to the metal dock frame).



CONTACT INFORMATION

PERMITTING and INSPECTION REQUEST

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ELECTRICAL REQUIREMENTS - BOAT DOCKS



www.co.pickens.sc.us

This is a general guide for the permitting of electricity to residential boat docks in Pickens County. For detailed information regarding the process and requirements in this guide, please contact a Building Codes staff member.

All power to floating structures under the jurisdiction of Pickens County Building Codes shall require a separate permit. If the applicant chooses to deviate from the guidelines as outlined below, the applicant shall provide a detailed sketch of the installation at the time of permit application. The sketch will then be reviewed by the Building Official and the applicant notified when the permit is approved for construction.

BOAT DOCK WITH POWER

If the floating structure is to be provided with power, all power SHALL be provided from a load center and shall be fitted with a **dedicated** circuit breaker and run to a disconnect (sub-panel) on shore as follows:

Meter Can/Disconnect at the road shall have two (2) 8 foot driven ground rods a minimum of 16 feet apart. Use UL approved clamps to connect a #4 bare copper wire to both rods. The #4 bare copper wire shall be connected to the grounding set screw in the meter can and be protected a minimum of 4ft from grade.

1. Provide power to sub-panel on shore

Run a minimum of one (1) three (3) conductor 12 gauge wire for 110/120 volt power requirements or one (1) four (4) wire

conductor 10 gauge wire for 220/230 volt requirements, in non-metallic conduit buried 18 inches or conductors UL rated for direct burial buried 24 inches below final grade to the sub-panel on the shore as described below. NOTE: Leave ditch open for inspection.

NOTE: All boat dock electrical wiring shall be bonded back to the sub-panel using an approved GREEN screw.

2. **Install** a minimum of one (1) pressure treated 4"X6" post 3 feet into the ground. The pressure treated post must be a minimum of 4 feet and a maximum of 8 feet from the end of the ramp or access to the floating structure.
3. **Install** a weatherproof disconnect secured to the post a minimum of 2 feet above the final grade and an 8' ground rod w/UL approved direct burial connectors with #4 bare copper wire to the grounding buss bar in the disconnect.
4. **Install** a weatherproof non-metallic single gang box with a weatherproof in-use cover to the pole. Install single duplex receptacle connected and fed from the disconnect using liquid tight non-metallic flex conduit and the appropriate size stranded wire. **The bottom of the receptacle shall be a minimum of 24 inches above final grade.**
5. **Install** a Ground Fault Circuit Interrupter (GFCI) breaker sized for the anticipated

load within the weatherproof disconnect **isolating the neutrals and grounds.**

Connection to the Dock

1. All hinged connections (Dock/Ramp/Ladder Connections) shall be bonded to the metal dock frame using a #6 stranded wire with approved connectors.
2. There shall be the appropriate sized SOW (hard service, oil, sunlight and water resistant, portable or other approved method of providing plug and cord power) cord fitted with a three (3) prong grounding type plug run from the receptacle on shore to the dock. It is also acceptable to install a waterproof non-metallic junction box on the end of the ramp to accept the plug and cord on the shore side and use liquid-tight non-metallic flex conduit with appropriate THHN conductors on the dock side.
3. The SOW cord/conduit shall be secured every 18 inches when placed on the ramp. The SOW cord shall be protected and provided with 12 inch loops at all flexible ramps and/or dock connections. The cord/conduit shall terminate on the dock in a non-metallic waterproof junction box. The junction box may serve as a single switch or receptacle.