

**MARTIN COUNTY
BOARD OF COUNTY COMMISSIONERS
2401 SE MONTEREY ROAD
STUART, FL 34996**

**FLORIDA BUILDING CODE SWIMMING POOL
PLAN REVIEW CHECKLIST**

- Provide a Plot Plan to include pool size, patio size. Indicate the location of overhead electric line. Indicate the setbacks.
- Provide the pool dimensions, volume in gallons and surface area (sq ft).
- Provide a specific pool profile showing the depth and slope. Detail compliance with ANSI/NSPI-5-95.
- Provide the Typical Pool wall section. Indicate when in the angle of repose.
- Provide an angle of repose detail when required.
- Certified Shoring Details-when required
- Provide partial dwelling floor plan that indicates all doors and windows with direct access to the pool.
- Provide the pump motor make, model and capacity (horsepower). Detail compliance with FBC 424.2.20.
- Water velocity maximum 10 ft/s except copper tubing maximum 9 ft/s. Section 424.2.6.3
- Turnover rate – equipment sizing minimum turnover of pool water at least once every twelve (12) hours.
- Provide the piping diagram. Detail compliance with FBC 424.2.6 through 424.2.11.
 - A. Suction inlet covers must comply with ANSI/ASME A112.19.8M, “Suction fittings for use in swimming pools, spas, hot tubs, and whirlpool bathtub appliances”.
 - B. Vacuum cleaner system with isolation valves must have protected inlets by either an approved antivortex cover. 12” X 12” grate or larger, or other approved means.
 - C. Back up system when grate covers are missing alternative vacuum relief devices shall include either:
 - 1. Approved vacuum release system
 - 2. Approved vent piping
 - 3. Other approved devices or means Provide engineering specific statement that distance from pump and “T” will cause system to react within the (3) second required time frame.
 - D. Minimum two (2) suction inlets per pump. Minimum three (3) feet separation, or located on two (2) different planes. These suction inlets shall be plumbed such that water is drawn through them simultaneously through a common line to the pump.
 - E. Vacuum or pressure cleaner fitting(s) must be accessible at the minimum operating water level or as an attachment to the skimmer (s).
- PUMPS 424.2.7**
 - A. Strainer on inlet side
 - B. Must be mounted on a substantial base
 - C. Capacity following heads
 - 1. Pressure diatomaceous earth – at least sixty (60) ft
 - 2. Vacuum diatomaceous earth – twenty (20) inch vacuum on the suction side and forty (40) ft total head
 - 3. Rapid sand – at least forty-five (45) ft
 - 4. High rate sand – at least sixty (60) ft
 - D. Must provide a pressure or vacuum gauge
- VALVES 424.2.8**
 - A. When under concrete slab must be located in a pit minimum five (5) pipe diameters minimum of ten (10) inches with cover.
 - B. Full-way (gate) valves – When below overflow rim of pool a valve must be installed on discharge outlet and suction line.
 - C. Check valves must be of the swing or vertical check patterns.
- WATER SUPPLY 424.8.9**
 - A. Must have back-flow
 - B. No over the rim fill spout unless under diving board or guarded.
- TESTS 424.2.12**
 - A. All pool piping shall be inspected.
 - 1. Static water or air pressure no less than 35 PSI for 15 min.
- B. Drain and waste piping
 - 1. Fill to overflow.
- WATER HEATING EQUIPMENT 424.2.14**
 - A. Labeled equipment
 - B. Water retention – must provide positive means of retaining water in the heater when pump is not in operation.
 - C. Relief valve – closed system must have pressure relief valve on discharge side.
 - D. Florida Energy Code – Section 612.1.ABC.2.3
 - 1. On-off switch required
 - 2. Cover required designed to minimize heat loss
 - 3. Time clocks – run during off-peak electric demand periods.
- Provide pool barrier. Detail compliance with FBC 424.2.17.3 and ANSI/NSPI-5-95. (See pool barrier form)
- Show the stairs, ladders and swim outs. Detail compliance with FBC 424.2.18 and ANSI/NSPI-5-95.
- LADDER AND STEPS**
 - A. Water depth more than 24 inches must have ladder or steps (max step rise 12”)
 - B. More than 5 foot depth must have ladders, stairs or underwater benches/swim-outs in deep end.
 - C. If diving equipment is used swim-out must be recessed or located in the corner.
- Show the ladder and handrail. Detail electric bonding and compliance to 1999 NEC 680.
- SKIMMERS 424.2.21.2**
 - A. Surface skimmers are required
 - B. One (1) per 1000 sq. ft. of surface area
 - C. Minimum flow rate 25 GPM per skimmer.
- MAIN OUTLET 424.2.21.3**
 - A. One (1) must be installed at the deepest point
- HYDROSTATIC RELIEF DEVICE 424.2.21.4**
 - In areas of anticipated water table, an approved hydrostatic relief device shall be installed.
- INLET FITTINGS 424.2.21.5**
 - A. One (1) per 15,000 gallons
 - B. Where more than one (1) is required must be a minimum of 10 ft. separation.
- Show the slide. Detail electric bonding and compliance to Manufacturer’s Specification, FBC 424.2.5.2 and NAASI/NSPI-5-95.
- Show the diving board. Detail electric bonding and compliance to Manufacturer’s Specifications, FBC 424.2.5.2 and ANSI/NSPI-5-95.
- Show the location of hand holds when required. Detail compliance to Manufacturer’s Specifications, FBC 424.2.5.2 and ANSI/NSPI-5-95.
- Prove and Electric diagram.
- Provide a GFI outlet, located per 1999 NEC 680.
- Indicate equipment location.
- Equipment foundation and enclosures
 - A. Must be on one (1) concrete base or slab.
 - B. All heating and electrical equipment must be protected from the weather.
- Temporary construction fencing must be installed during construction. Section FBC 1803.1.1 and F.S. 553.60 Trench Safety Act.
- Pool plans must be signed and sealed by an architect or engineer licensed in Florida.
- FINAL INSPECTION 424.2.19**
 - Must be completed and filled with water.