

454.2.5.1 Approval and authorization.

The provisions of this code are not intended to prevent the use of any alternate material, method of construction, appliance or equipment, provided any such alternate has been first approved and its use authorized by the administrative authority.

454.2.5.2 Required tests.

When there is insufficient evidence to substantiate claims for alternates, the administrative authority may require tests, as proof of compliance, to be made by an approved agency at the expense of the applicant.

454.2.6 Private swimming pools.

454.2.6.1 Conformance standard.

Design, construction and workmanship shall be in conformity with the requirements of [ANSI/APSP/ICC 3](#), [ANSI/APSP/ICC 4](#), [ANSI/APSP/ICC 5](#), [ANSI/APSP/ICC 6](#), and [ANSI/APSP/ICC 7](#).

454.2.6.2 Required equipment.

Every swimming pool shall be equipped complete with approved mechanical equipment consisting of filter, pump, piping valves and component parts.

Exception: Pools with a supply of fresh water equivalent to the volume of the pool in the specified turnover time will be allowed.

454.2.6.3 Water velocity.

Pool piping shall be designed so the water velocity will not exceed 10 feet per second (mm/s) for pressure piping and 8 feet per second (mm/s) for suction piping, except that the water velocity shall not exceed 8 feet per second (3048 mm/s) in copper tubing. Main suction outlet velocity must comply with [ANSI/APSP/ICC 7](#).

Exception: Jet inlet fittings shall not be deemed subject to this requirement.

454.2.6.4 Piping to heater.

Water flow through the heater, any bypass plumbing installed, any back-siphoning protection, and the use of heat sinks shall be done in accordance with the manufacturer's recommendations.

454.2.6.5 Piping installation.

All piping materials shall be installed in strict accordance with the manufacturer's installation standards.

Exception: Primer and glue on exposed aboveground piping not required to be colored.

454.2.6.6

Entrapment protection for suction outlets shall be installed in accordance with requirements of [ANSI/APSP 7/ICC 7](#).

454.2.7 Pumps.

454.2.7.1 Strainer.

Pool circulating pumps shall be equipped on the inlet side with an approved-type hair and lint strainer when used with a pressure filter.

454.2.7.2 Installation.

Pumps shall be installed in accordance with manufacturer recommendations.

454.2.7.3 Capacity.

Pumps shall have design capacity at the following heads.

1. Pressure diatomaceous earth—At least 60 feet (18 288 mm).
2. Vacuum D.E.—20-inch (508 mm) vacuum on the suction side and 40 feet (1219 mm) total head.
3. Rapid sand—At least 45 feet (13 716 mm).
4. High rate sand—At least 60 feet (18 288 mm).

454.2.7.4 Materials.

Pump impellers, shafts, wear rings and other working parts shall be of corrosion-resistant materials.

454.2.8 Valves.

454.2.8.1 General.

Valves shall be made of materials that are approved in the [Florida Building Code, Plumbing](#). Valves located under concrete slabs shall be set in a pit having a least dimension of five pipe diameters with a minimum of at least 10 inches (254 mm) and fitted with a suitable cover. All valves shall be located where they will be readily accessible for maintenance and removal.

454.2.8.2 Full-way (gate) valves.