



**Grant County  
Department of Building/Fire Marshal**

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**RESIDENTIAL SWIMMING POOL REQUIREMENTS**

The installation of residential swimming pools shall be in accordance with the 2015 edition of the International Swimming Pool and Spa Code (ISPSC) (portion attached).

The following information must be provided to complete the process for application of permit to install swimming pools, spas and hot tubs.

1. **Design and Construction:** provide manufacturer's information showing pool design and construction in conformance with:
  - a. In ground: ANSI/NSPI-5 as listed in ISPSC Chapter 8
  - b. On ground: ANSI/NSPI-5 as listed in ISPSC Chapter 7
  - c. Flood hazard areas: Shall show compliance with Section 304 of the ISPSC

2. **Barrier Requirements:** provide specific details showing compliance with Barrier Requirements listed in Section 305. Details shall show:
  - a. An overhead layout of the barrier

*Where a wall of a structure serves as part of the barrier as allowed through ISPSC 305.4, show compliance with items 1, 2 or 3.*

*Where a powered safety cover is used in lieu of a barrier, provide manufacturer's specifications showing compliance with ASTM F 1346.*

3. **Entrapment protection:** provide manufacturer's details showing compliance with Section 310/APSP-7.
4. **Heated pools and spas:** Note on application whether electric or propane heat (with tank size if propane)
  - a. Pools and Permanent spas: Provide specific details showing compliance with WSEC Section C404.11, attached.
  - b. Portable spas: Provide specific details showing compliance with WSEC Section C404.12, attached.
  - c. New propane tanks require a permit before placement for tanks 125 gallons or larger. Provide a separate application for the propane tank and include the location on your site plan with distances to structures and property lines.

## 2015 Washington State Energy Code Excerpt

**C404.10.11 Energy consumption of pools and permanent spas (Mandatory).** The energy consumption of pools and permanent spas shall be controlled by the requirements in Sections C404.11.1 through C404.11.4.

**C404.11.1 Heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 determined in accordance with ASHRAE Standard 146. Other pool heating equipment shall comply with the applicable efficiencies in Section C404.2

The electric power to all heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater, mounted on the exterior of the heater, or external to and within 3 feet of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas fired heaters shall not be equipped with constant burning pilot lights.

**C404.11.2 Time switches.** Time switches or other control method that can automatically turn off and on heaters and pump motors according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built in time switches shall be in compliance with this section.

**Exceptions:**

1. Where public health standards require 24-hour pump operation.
2. Pumps that are required to operate solar-and waste-heat-recovery pool heating systems.

**C404.11.3 Covers.** Heated pools and in-ground permanent spas shall be provided with a vapor-retardant cover on or at the water surface. Pools heated to a more than 90° F shall have a pool cover with a minimum insulation value of R-12, and the sides and bottom of the pool shall also have a minimum insulation value of R-12.

**C404.11.4 Heat recovery.** Heated indoor swimming pools, spas or hot tubs with water surface area greater than 200 square feet shall provide for energy conservation by an exhaust air heat recovery system that heats ventilation air, pool water or domestic hot water. The heat recovery system shall be configured to decrease the exhaust air temperature at design heating conditions (80° F indoor) by 36°F (10°C)

**Exception:** Pools, spas or hot tubs that include system(s) that provide equivalent recovered energy on an annual basis through one of the following methods:

1. Renewable energy;
2. Dehumidification heat recovery;
3. Waste heat recovery; or
4. A combination of these system sources capable of and configured to provide at least 70 percent of the heating energy required over an operating season.

**C404.12 Energy consumption of portable spas (Mandatory).** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP 14.

**C404.13 Service water-heating system commissioning and completion requirements.** Service water-heating systems, swimming pool water-heating systems, spa water-heating systems and the controls for those systems shall be commissioned and completed in accordance with Section C408.