



Portable Heaters Guidelines

CODE COMPLIANCE GUIDELINE

This page outlines the Virginia Statewide Fire Prevention Code (i.e., Fire Prevention Code or SFPC) fire safety requirements and prohibitions related to the operation and storage of portable heating equipment in the City of Staunton. It does not address open-flame cooking devices, portable outdoor fireplaces, or the installation and maintenance of non-portable heating appliances. Portable outdoor fireplaces are regulated under Chapter 3 of the Fire Prevention Code.

Questions regarding the content of this publication should be directed to the Fire Marshal's Office at 540-332-3720 during regular office hours, Monday thru Friday, 8:00 a.m. to 4:00 p.m.

OVERVIEW

The intent of this page is to provide information to help prevent unwanted fires resulting from the unlawful or unsafe operation and/or storage of portable heating equipment. In addition to specifying the regulations prohibiting the operation and storage of portable heaters, fire safety, and precautionary information related to the operation of these devices is provided.

PORTABLE HEATING EQUIPMENT. Portable heating equipment (i.e., portable heaters) may be generally defined as portable, purpose-built equipment designed to safely warm the air in an enclosed area or open area in proximity to the heater. Portable heating equipment specifically regulated by the Fire Prevention Code can be separated into three categories:

1. Portable Outdoor Gas-fired Heating Appliances (i.e., Patio Heaters)
2. Portable Unvented Fuel-Fired Heaters
3. Portable Electric Space Heaters

PORTABLE OUTDOOR GAS-FIRED HEATERS (PATIO HEATERS)

Section 603.4.2 of the Fire Prevention Code specifically regulates portable outdoor gas-fired heating appliances, commonly known as patio heaters. These portable heating appliances are typically configured as a free-standing pole, fashioned with a heater and reflector dome/shield at the top, with a broad base arranged for the storage of a 20-pound propane (LPG) cylinder. These appliances may also be designed to appear and function as portable outdoor fireplaces or tall patio tables.

Appliance Location Restrictions. In accordance with Section 603.4.2.1 of the Fire Prevention Code, portable outdoor gas-fired heating appliances shall be located in accordance with the following regulations:

- **Clearance to Combustible Materials.** Portable outdoor gas-fired heating appliances shall not be located beneath, or closer than 5 feet to combustible decorations and combustible overhangs, awnings, sunshades, or similar combustible attachments to buildings.
- **Clearance to Buildings.** Portable outdoor gas-fired heating appliances shall be located at least 5 feet from buildings.
- **Prohibited Storage or Use.** The storage or use of portable outdoor gas-fired heating appliances is prohibited in any of the following locations:
 - Inside of any occupancy when connected to the fuel gas container
 - Inside of tents, canopies and membrane structures
 - On exterior balconies
- **Proximity to Exits.** Portable outdoor gas-fired heating appliances shall not be located within 5 feet of exits or exit discharges.

Installation and Operational Requirements. In accordance with Section 603.4.2.2 of the Fire Prevention Code, portable outdoor gas-fired heating appliances shall be installed and operated in accordance with the following regulations:

- **Listing & Approval.** Only listed and approved portable outdoor gas-fired heating appliances utilizing a fuel gas container that is integral to the appliance shall be used.
- **Installation & Maintenance.** Portable outdoor gas-fired heating appliances shall be installed and maintained in accordance with the manufacturer's instructions.
- **Tip-over Switch Required.** Portable outdoor gas-fired heating appliances shall be equipped with a tilt or tip-over switch that automatically shuts off the flow of gas if the appliance is tilted more than 15 degrees from the vertical.
- **Guard Against Contact Required.** The heating element or combustion chamber of portable outdoor gas-fired heating appliances shall be permanently guarded to prevent accidental contact by persons or material.

Fuel Gas Containers. In accordance with Section 603.4.2.3 of the Fire Prevention Code, fuel gas containers for portable outdoor gas-fired heating appliances shall comply with the following:

- **Approved Containers.** Only approved DOTn or ASME gas containers shall be used.
- **Container Replacement Restriction.** Replacement of fuel gas containers in portable outdoor gas-fired heating appliances shall not be conducted while the public is present.
- **Container Capacity Limitation.** The maximum individual capacity of gas containers used in connection with portable outdoor gas-fired heating appliances shall not exceed 20 pounds.

- **Prohibited Storage of Containers.** Gas containers shall not be stored inside of buildings, or in any location near exit access doors, exits, stairways, or areas normally used, or intended to be used, as a means of egress. Containers not connected for use shall not be stored on roofs.
- **Outside Storage of Containers.** Gas containers approved for outside storage shall be located in a manner that minimizes exposure to excessive temperature rise, physical damage, and/or tampering, which includes a lockable, ventilated metal cabinet or other approved enclosure.
- **Outside Storage/Use Permit.** Where liquefied petroleum gas (LPG) is stored and/or used outside, a Fire Prevention Code Permit (FPCP) is required. For more information about this requirement, contact the Fire Marshal's Office at 540-332-3720 during regular office hours, Monday thru Friday, 8:00 a.m. to 4:00 p.m.

PORTABLE ELECTRIC SPACE HEATERS

General Regulations. In accordance with Section 605.10 of the Fire Prevention Code, where not prohibited by other sections of the Fire Prevention Code, portable electric space heaters shall be permitted to be used in all occupancies other than Group I-2 (i.e., hospitals, nursing homes, certain day care centers, etc.) in accordance with the following regulations:

- Shall be listed and labeled in accordance with UL 1278. *(605.10.1)*
- Shall be installed and maintained in accordance with the listing and instructions. *(605.7)*
- Shall be operated only in locations for which they are listed. *(605.10.4)*
- Shall be plugged directly into an approved receptacle. *(605.10.2)*
- Shall not be plugged into extension cords. *(605.10.3)*
- Shall not be operated within 3 feet of any combustible materials. *(305.1 & 605.10.4)*
- Heating elements shall be permanently guarded so as to prevent accidental contact by persons or material. *(603.5.1)*

Group I-2 Exception. The use of portable, electric space heaters in which the heating element cannot exceed a temperature of 212°F shall be permitted in non-sleeping staff and employee areas in occupancies in Group I-2. *(605.10)*.

PORTABLE UNVENTED FUEL-FIRED HEATERS

Description: Portable unvented heaters include heating appliances fueled by flammable or combustible gases or liquids (e.g., kerosene salamanders, propane patio heaters, etc.), where all of the products of combustion are not conveyed directly from the heating appliance to the outdoor atmosphere through an approved chimney or vent system.

Prohibited Occupancies. In accordance with Section 603.4 of the Fire Prevention Code, portable unvented fuel-fired heating equipment shall be prohibited in the following occupancies:

- Group A Occupancies *(Assembly, Bars, Restaurants, Night Clubs, Theaters, Gymnasiums, etc.)*
- Group E Occupancies *(Public/Private Schools to the 12th Grade, Day Care Centers, etc.)*
- Group I Occupancies *(Hospitals, Nursing Homes, Group Homes, Jails, Pre-release Centers, etc.)*

- Group R-1 Occupancies (*Hotels, Motels, Transient Boarding Houses, etc.*)
- Group R-2 Occupancies (*Apartments, Multi-family Residential Condominiums, Dormitories, etc.*)
- Group R-3 Occupancies (*Home Adult and Child Day Care, Congregate Living Facilities, etc.*)
- Group R-4 Occupancies (*Residential Care/Assisted Living Facilities*)

Definitions of occupancy classifications are found in Chapter 2 of the Fire Prevention Code.

Occupancy Exceptions. Exceptions to the prohibited occupancies listed above include:

- Listed and approved unvented fuel-fired heaters, including portable outdoor gas-fired heating appliances, in one- and two-family dwellings.
- Portable outdoor gas-fired heating appliances shall be allowed in accordance with Section 603.4.2 of the Fire Prevention Code.

Prohibited Rooms or Spaces. In accordance with Section 603.4.1 of the Fire Prevention Code, unvented fuel-fired heating equipment shall not be located in, or obtain combustion air from, any of the following rooms or spaces: sleeping rooms, bathrooms, toilet rooms, storage closets.

ADDITIONAL PROHIBITIONS & REQUIREMENTS

Ignition Source Clearance. In accordance with Section 305.1 of the Fire Prevention Code, clearance between ignition sources, such as luminaires, heaters, flame-producing devices and combustible materials, shall be maintained in an approved manner.

Repair Garages and Motor Fuel-Dispensing Facilities. In accordance with Section 2301.6 of the Fire Prevention Code, heat-producing appliances shall be suitable for the locations in which they are installed and shall comply with NFPA 30A and the *International Fuel Gas Code* or the *International Mechanical Code*. More specifically, Section 7.6.2 of NFPA 30A specifies that solid fuel stoves, improvised furnaces, salamanders, or space heaters shall not be permitted in areas of repair garages used for repairing or servicing of vehicles or in a fuel dispensing area.

Heating Appliances Using Class I Flammable Liquids. In accordance with Section 5705.3.3 of the Fire Prevention Code, heating, lighting and cooking appliances, which utilize Class I liquids, shall not be operated within a building or structure. *Exception:* Operation in single-family dwellings. A Class I liquid is a liquid having a closed cup flash point below 100°F.

Approval, Listing, and Labeling. Portable heating equipment must be listed and/or labeled for its intended use. In some cases, portable heating equipment may be required to be approved. The following Fire Prevention Code definitions are provided to clarify the requirements for approval, listing, and labeling of portable heating appliances:

- **Approved:** Acceptable to the fire code official (i.e., Fire Marshal). More specifically, acceptability of portable heating equipment by the fire code official includes, but is not limited to, equipment that is listed and/or labeled as required by applicable law, used in accordance with manufacturers' instructions and limitations for proper and safe operation, used in a manner that prevents unwanted ignition of combustibles and prevents injury.

- **Listed:** Equipment, materials, products or services included in a list published by an organization acceptable to the fire code official and concerned with evaluation of products or services that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services and whose listing states either that the equipment, material, product or service meets identified standards or has been tested and found suitable for a specified purpose.
- **Labeled:** Equipment, materials or products to which have been affixed a label, seal, symbol or other identifying mark of a nationally recognized testing laboratory, inspection agency or other organization concerned with product evaluation that maintains periodic inspection of the production of the above-labeled items and whose labeling indicates either that the equipment, material or product meets identified standards or has been tested and found suitable for a specified purpose.

Supplementary Heating Source. Building occupants and owners must remember that the lawful use of portable heating equipment inside is generally intended to serve only as a supplementary source of heat, and is not a substitute for the building or structure's approved, permanent heating system. Additionally, portable heaters should never be left unattended.

PORTABLE OUTDOOR FIREPLACES

In accordance with Sections 307.4.3 and 307.5 of the Fire Prevention Code, portable outdoor fireplaces shall be used in accordance with the manufacturer's instructions and shall not be operated within 15 feet (3048 mm) of a structure or combustible material. *Exception:* Portable outdoor fireplaces used at one and two-family dwellings.

Attendance. The use of portable outdoor fireplaces shall be constantly attended until the fire is extinguished. A minimum of one portable fire extinguisher complying with Section 906 with a minimum 4-A rating or other approved on-site fire-extinguishing equipment, such as dirt, sand, water barrel, garden hose or water truck, shall be available for immediate utilization.