

INFORMATION PACKET

FIREPLACES, WOOD/PELLET STOVES & OUTDOOR FURNACES

- All chimneys and fireplaces to be installed as per Chapter 10 of the Residential Code of the State of New York.
- Masonry fireplaces require plans.
- Factory-built fireplaces to be installed in accordance with Section R-100 and R1003 (attached) of the Residential Code of the State of New York.
- Fireplace stoves to be installed in accordance with Section M-1004. CO detector to be installed (see attached).
- Must submit manufacturer's specifications & catalog/pamphlet for stove.
- A detailed sketch showing all windows, doors, rear and side clearance, etc., of the area/room where the fireplace/stove is to be installed must be submitted with the application.
- **OUTDOOR FURNACES** – must submit manufacturer's specifications, installment requirements & copy of survey showing location of furnace (must meet minimum setback requirements – 10 feet from all property lines & 15 feet from house). An electrical inspection will also be required.

South Blooming Grove Only – minimum lot size three (3) acres, outdoor furnaces shall be set back not less than 250 feet from the nearest adjoining or neighboring dwelling and must be a minimum of 15 feet from the house. Further, in any event the furnace shall be located a minimum of 150 feet from the adjoining property line.
- Must schedule final inspection by Building Inspector
24 hour notice required.

RR313.4 Carbon monoxide alarms. This section covers installation, performance and maintenance of carbon monoxide alarms and their components in new and existing buildings. The requirements of this section shall apply to all new and all existing buildings, without regard to the date of construction of the building and without regard to whether such building shall or shall not have been offered for sale.

EXCEPTION: Compliance with this section is not required where no carbon monoxide source is located within or attached to the structure. However, compliance with this section is required if any carbon monoxide source is subsequently located within or attached to the structure.

For the purposes of this section RR313.4, the following terms will have the following meanings:

Carbon monoxide source – includes fuel fired appliances, equipment, devices and systems; solid fuel burning appliances, equipment, devices and systems; all other appliances, equipment, devices and systems that may emit carbon monoxide; fireplaces; garages; and all other motor vehicle related occupancies.

Dwelling unit – means a single unit providing complete, independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking and sanitation.

Sleeping area – means a room or space in which people sleep.

Sleeping unit – means a room or space in which people sleep, which can also include permanent provisions for living, eating, and either sanitation or kitchen facilities but not both. Such rooms and spaces that are also part of a dwelling unit are not sleeping units.

SECTION 601 GENERAL

601.1 Scope. This chapter shall govern the approval, design, installation, construction, maintenance, alteration and repair of the appliances and equipment specifically identified herein.

601.2 Fireplaces. Fireplaces (solid fuel type or ANSI Z21.50) shall be installed with tight fitting noncombustible fireplace doors to control infiltration losses in the construction type listed here:

1. Masonry or factory-built fireplaces designed to allow an open burn.
2. Whenever a decorative appliance (ANSI Standard Z21.60 gas-log style unit) is installed in a vented solid fuel fireplace.
3. Vented decorative gas fireplace appliances (ANSI Standard Z21.50 unit).

Fireplaces shall be provided with a source of combustion air as required by the fireplace construction provisions of the *Building Code of New York State* or the *Residential Code of New York State*.

601.3 Flame safeguard device. All fuel gas space-heating appliances installed or used in a building occupied as a residence shall be equipped with an automatic flame safeguard device that shall shut off the fuel supply to the main burner or group of burners when the flame or pilot light thereof is extinguished.

SECTION 605 VENTED GAS FIREPLACE HEATERS

605.1 General. Vented gas fireplace heaters shall be installed in accordance with the manufacturer's installation instructions, shall be tested in accordance with ANSI Z21.88 and shall be designed and equipped as specified in [Section 602.2](#).

R1001.9 Hearth and hearth extension. Masonry fireplace hearths and hearth extensions shall be constructed of concrete or masonry, supported by noncombustible materials, and reinforced to carry their own weight and all imposed loads. No combustible material shall remain against the underside of hearths and hearth extensions after construction.

R1001.9.1 Hearth thickness. The minimum thickness of fireplace hearths shall be 4 inches (102 mm).

R1001.9.2 Hearth extension thickness. The minimum thickness of hearth extensions shall be 2 inches (51 mm).

Exception: When the bottom of the firebox opening is raised at least 8 inches (203 mm) above the top of the hearth extension, a hearth extension of not less than $\frac{3}{8}$ -inch-thick (10 mm) brick, concrete, stone, tile or other approved noncombustible material is permitted.

SECTION R1003 MASONRY CHIMNEYS

R1003.1 Definition. A masonry chimney is a chimney constructed of concrete or masonry, hereinafter referred to as masonry. Masonry chimneys shall be constructed, anchored, supported and reinforced as required in this chapter.

R1003.2 Footings and foundations. Footings for masonry chimneys shall be constructed of concrete or solid masonry at least 12 inches (305 mm) thick and shall extend at least 6 inches (152 mm) beyond the face of the foundation or support wall on all sides. Footings shall be founded on natural undisturbed earth or engineered fill below frost depth. In areas not subjected to freezing, footings shall be at least 12 inches (305 mm) below finished grade.

R1003.3 Seismic reinforcing. Masonry or concrete chimneys shall be constructed, anchored, supported and reinforced as required in this chapter. In Seismic Design Category D₀, D₁ or D₂ masonry and concrete chimneys shall be reinforced and anchored as detailed in Section R1003.3.1, R1003.3.2 and R1003.4. In Seismic Design Category A, B or C, reinforcement and seismic anchorage is not required.

R1003.3.1 Vertical reinforcing. For chimneys up to 40 inches (1016 mm) wide, four No. 4 continuous vertical bars, anchored in the foundation, shall be placed in the concrete, or between wythes of solid masonry, or within the cells of hollow unit masonry, and grouted in accordance with Section R609.1.1. Grout shall be prevented from bonding with the flue liner so that the flue liner is free to move with thermal expansion. For chimneys more than 40 inches (1016 mm) wide, two additional No. 4 vertical bars shall be installed for each additional 40 inches (1016 mm) in width or fraction thereof.

R1003.3.2 Horizontal reinforcing. Vertical reinforcement shall be placed enclosed within $\frac{1}{4}$ -inch (6 mm) ties, or other reinforcing of equivalent net cross-sectional area, spaced not to exceed 18 inches (457 mm) on center in concrete, or placed in the bed joints of unit masonry, at a minimum of every 18 inches (457 mm) of vertical height. Two such ties shall be installed at each bend in the vertical bars.

R1003.4 Seismic anchorage. Masonry and concrete chimneys and foundations in Seismic Design Category D₀, D₁ or D₂ shall be anchored at each floor, ceiling or roof line more than 6 feet (1829 mm) above grade, except where constructed completely within the exterior walls. Anchorage shall conform to the requirements in Section R1003.4.1.

R1003.4.1 Anchorage. Two $\frac{3}{16}$ -inch by 1-inch (5 mm by 25 mm) straps shall be embedded a minimum of 12 inches (305 mm) into the chimney. Straps shall be hooked around the outer bars and extend 6 inches (152 mm) beyond the bend. Each strap shall be fastened to a minimum of four floor joists with two $\frac{1}{2}$ -inch (13 mm) bolts.