

City of NAPOLEON, OHIO

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March 14, 1996

Mayor
Donald M. Stange

Mr. Robert Pollick
1050 Dodd
Napoleon, Ohio 43545

Members of Council
Michael J. DeWit, President
Sarah J. Peper
John E. Church
James Hershberger
Terri A. Williams
Travis B. Sheaffer
Dennis Fligor

Re. Water heater vent.

Dear Mr. Pollick

This letter is to inform you that your water heater is not properly vented according to City Code. I have attached a copy of the code sections which applies to venting of such appliances, please note the violations are to section 2103.4.1 and 2103.4.3.

City Manager
Marc S. Gerken, P.E.

Please make the appropriate corrections to your water heater venting. Once you have completed the corrections, I will need to inspect the work before the water heater is placed back in operation.


Finance Director
Gregory J. Heath

If you have any questions regarding this notice you may contact me at 592-4010.

Law Director
David M. Grahn

Sincerely

City Engineer
Adam C. Hoff, P.E.


Brent N Damman
Building & Zoning
Administrator

2103.4 Installation. Vent and chimney connectors shall be installed in accordance with the appliance manufacturer's installation instructions and within the space that the appliance is located. Appliances shall be located as close as practical to the vent or chimney. Connectors shall be as short and straight as possible and installed with a rise of not less than 1/4 inch (6.4 mm) to the foot run. Connectors shall be securely supported and joints shall be fastened with sheet metal screws and rivets. Devices that obstruct the flow of flue gases shall not be installed in a connector unless listed and labeled or approved for such installations.

2103.4.1 Location. When the connector serving a gas appliance with a draft hood is located in nonconditioned space, that portion of the connector shall be listed and labeled Type B or Type L vent material.

2103.4.2 Floor, ceiling and wall penetrations. A chimney connector or vent connector shall not pass through any floor, ceiling, wall, or partition unless the connector is listed and labeled for wall pass-through, or is routed through a device listed and labeled for wall pass-through and is installed in accordance with the conditions of its listing and label. Connectors for listed and labeled gas appliances with draft hoods, and oil-fired appliances listed and labeled for Type L vents, passing through walls or partitions shall be in accordance with the following:

1. Type B or Type L vent material for gas appliances and Type L vent material for oil appliances shall be installed with not less than listed and labeled clearances to combustible material.
2. Single-wall metal pipe shall be guarded by a ventilated metal thimble not less than 4 inches (102 mm) larger in diameter than the vent connector.

2103.4.3 Length. The horizontal run of an uninsulated connector to a natural draft chimney shall not exceed 75 percent of the height of the vertical portion of the chimney above the connector. The horizontal run of a listed connector to a natural draft chimney shall not exceed 100 percent of the height of the vertical portion of the chimney above the connector.

2103.4.4 Size. A connector shall not be smaller than the flue collar of the appliance.

Exception: When installed in accordance with the manufacturer's installation instructions as approved by the building official.

2103.4.5 Clearance. Connectors shall be installed with clearance to combustibles as set forth in Table 2103.4.5. Reduced clearances to combustible material shall be in accordance with Table 1306.1b and Figure 1306.1.

2103.4.6 Access. The entire length of a connector shall be accessible for inspection, cleaning and replacement.

2103.4.7 Fireplace connection. An appliance shall not be connected to a chimney flue serving a fireplace unless the fireplace opening is sealed or the chimney flue which vents the fireplace is permanently sealed below the connection.

**TABLE 2103.4.5
CHIMNEY AND VENT CONNECTOR CLEARANCES
FROM COMBUSTIBLE MATERIALS¹**

TYPE OF CONNECTOR	MINIMUM CLEARANCE (Inches)
Single-Wall Metal Pipe Connectors	
Gas Appliances without Draft Hoods	18
Oil and Solid-Fuel Appliances	18
Unlisted Gas Appliances with Draft Hoods	9
Oil Appliances Listed for Use with Type L Vents	9
Listed Gas Appliances with Draft Hoods ²	6
Type L Vent Piping Connectors	
Gas Appliances without Draft Hoods	9
Oil and Solid-Fuel Appliances	9
Unlisted Gas Appliances with Draft Hoods	6
Oil Appliances Listed for Use with Type L Vents	— ³
Listed Gas Appliances with Draft Hoods	— ²
Type B Gas Vent Piping Connectors	
Listed Gas Appliances with Draft Hoods	— ²

For SI: 1 inch = 25.4 mm.

¹ These minimum clearances apply to unlisted single-wall chimney and vent connectors. Reduction of required clearances are permitted as in Table 1306.1b.

² When listed Type B or Type L vent piping is used, the clearance shall be in accordance with the vent listing.

³ When listed Type L vent piping is used, the clearance shall be in accordance with the vent listing.

SECTION 2104 VENTS

2104.1 Type of vent required. Appliances shall be provided with a listed and labeled venting system as set forth in Table 2104.1.

2104.2 Termination. Vent termination shall comply with Sections 2104.2.1 through 2104.2.6.

2104.2.1 Through the roof. Vents passing through a roof shall extend through flashing and terminate in accordance with the manufacturer's installation requirements.

2104.2.2 Natural draft appliances. Vents for natural draft appliances shall terminate at least 5 feet (1524 mm) above the highest connected appliance outlet, and natural draft gas vents serving wall furnaces shall terminate at an elevation at least 12 feet (3658 mm) above the bottom of the furnace.

2104.2.3 Type B or BW vent. Type B or BW gas vents shall conform to UL 441. Such vents shall terminate in listed vent caps 12 inches (305 mm) in size or smaller in accordance with Table 2104.2.3 provided the vent is located at least 8 feet (2438 mm) from a vertical wall. If the vent is within 8 feet (2438 mm) of a wall, the vent shall be extended 2 feet (610 mm) above the wall.