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**623.1 Cooking appliances.** Cooking appliances that are designed for permanent installation, including ranges, ovens, stoves, broilers, grills, fryers, griddles, hot plates and barbecues, shall be ~~listed~~ ~~tested~~ in accordance with ANSI Z21.1, ANSI Z21.58/CSA 1.6 or ANSI Z83.11/CSA 1.8 and shall be installed in accordance with the manufacturer's instructions.

**623.2 Prohibited location.** Cooking appliances designed, tested, listed and labeled for use in commercial occupancies shall not be installed within dwelling units or within any area where domestic cooking operations occur.

**Exceptions:** ~~1. Appliances that are also listed as domestic cooking appliances.~~  
~~2. Where the installation is designed by a licensed Professional Engineer, in compliance with the manufacturer's installation instructions.~~

**624.1 General.** Water heaters shall be ~~listed~~ ~~tested~~ in accordance with ANSI Z21.10.1/CSA 4.1 ~~or~~ ~~and~~ ANSI Z21.10.3/CSA 4.3 and shall be installed in accordance with the manufacturer's instructions. Water heaters utilizing fuels other than fuel gas shall be regulated by the *International Mechanical Code*.

**625.1 General.** Refrigerators shall be ~~listed~~ ~~tested~~ in accordance with ANSI Z21.19/CSA 1.4 and shall be installed in accordance with the manufacturer's instructions. Refrigerators shall be provided with adequate clearances for ventilation at the top and back, and shall be installed in accordance with the manufacturer's instructions. If such instructions are not available, not less than 2 inches (51 mm) shall be provided between the back of the refrigerator and the wall and not less than 12 inches (305 mm) above the top.

**627.1 General.** Gas-fired air-conditioning appliances shall be ~~listed~~ ~~tested~~ in accordance with ANSI Z21.40.1/CGA 2.91 or ANSI Z21.40.2/CGA 2.92 and shall be installed in accordance with the manufacturer's instructions.

**630.1 General.** Infrared radiant heaters shall be ~~listed~~ ~~tested~~ in accordance with ANSI Z83.19 or Z83.20 and shall be installed in accordance with the manufacturer's instructions.

**SECTION 634 (IFGS)**  
**CHIMNEY DAMPER OPENING AREA**

**634.1 Free opening area of chimney dampers.** ~~Where an unlisted decorative appliance for installation in a vented fireplace is installed, the fireplace damper shall have a permanent free opening equal to or greater than specified in Table 634.1.~~

**TABLE 634.1**  
**FREE OPENING AREA OF CHIMNEY DAMPER FOR VENTING FLUE GASES FROM UNLISTED DECORATIVE APPLIANCES FOR INSTALLATION IN VENTED FIREPLACES**

CHIMNEY HEIGHT (feet)	MINIMUM PERMANENT FREE OPENING (square inches)*						
	8	13	20	29	39	51	64
Appliance input rating (Btu per hour)							
6	7,800	14,000	23,200	34,000	46,400	62,400	80,000
8	8,400	15,200	25,200	37,000	50,400	68,000	86,000
10	9,000	16,800	27,600	40,400	55,800	74,400	96,400
15	9,800	18,200	30,200	44,600	62,400	84,000	108,800
20	10,600	20,200	32,600	50,400	68,400	94,000	122,200
30	11,200	21,600	36,600	55,200	76,800	105,800	138,600

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 square inch = 645.16 mm<sup>2</sup>, 1 British thermal unit per hour = 0.2931 W.

a. The first six minimum permanent free openings (8 to 51 square inches) correspond approximately to the cross-sectional areas of chimneys having diameters of 3 through 8 inches, respectively. The 64 square-inch opening corresponds to the cross-sectional area of standard 8-inch by 8-inch chimney tile.

**635.1 General.** Permanently fixed-in-place outdoor decorative *appliances* shall be *listed tested* in accordance with ANSI Z21.97 and shall be installed in accordance with the manufacturer's instructions.

## **Chapter 8 Reference Standards**

### **ANSI**

[ANSI Z21.90/CSA 6.24—2015 Gas Convenience Outlets and Optional Enclosures](#)

[CSA/ANSI NGV 5.2—2017 Vehicle Fueling Appliances \(VFA\)](#)

[Z21.41/CSA 6.9—2014 Quick Disconnect Devices for use with Gas Fuel Appliances](#)

### **ASME**

[B16.20—2017 Metallic Gaskets For Pipe Flanges: Ring-Joint, Spiral-Wound and Jacketed](#)

[B16.21—2016 Nonmetallic Flat Gaskets for Pipe Flanges](#)

### **ASSP**

[Z359.1 The Fall Protection Code](#)

### **ASTM**

[C64 - 72\(1977\) Standard Specification for Refractories for Incinerators and Boilers](#)

### **SMACNA**

[SMACNA/ANSI—2016 HVAC Duct Construction Standards—Metal and Flexible, 4th Edition \(ANSI\)](#)

### **UL**

[UL 791-2006: Residential Incinerators – with revisions through November, 2014](#)

[UL 2790-2010: Commercial Incinerators - with revisions through June, 2019](#)

## **Appendices**

### **SECTION D103 GAS PIPING AND CONNECTIONS INSPECTIONS.**

1. *Leak Checks.* Conduct a test for gas leakage using either a non-corrosive leak detection solution or a CGD confirmed with a leak detection solution.

The preferred method for leak checking is by use of gas leak detection solution applied to all joints. This method provides a reliable visual indication of significant leaks.

The use of a CGD in its audio sensing mode can quickly locate suspect leaks but can be overly sensitive indicating insignificant and false leaks. All suspect leaks found through the use of a CGD should be confirmed using a leak detection solution.

Where gas leakage is confirmed, the owner should be notified that repairs must be made. The inspection should include the following components:

- a. All gas *pipng* fittings located within the *appliance* space.
  - b. *Appliance* connector fittings.
  - c. *Appliance* gas valve/regulator housing and connections.
2. *Appliance Connector.* Verify that the *appliance* connection type is compliant with Section 411 of the International Fuel Gas Code. Inspect flexible *appliance* connections to determine if they are free of cracks, corrosion and signs of damage. Verify that there are no uncoated ~~brass~~ *copper alloy* connectors. Where connectors are determined to be unsafe or where an uncoated ~~brass~~ *copper alloy* connector is found, the appliance shutoff valve should be placed in the off position and the owner notified that the connector must be replaced.

3. *Piping Support.* Inspect *piping* to determine that it is adequately supported, that there is no undue stress on the *piping*, and if there are any improperly capped pipe openings.
4. *Bonding.* Verify that the electrical bonding of gas *piping* is compliant with Section 310 of the International Fuel Gas Code.

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