



**REFERENCE STANDARD RS-15
CHIMNEYS AND GAS VENTS**

*** LIST OF REFERENCED NATIONAL STANDARDS**

AGA/ANSI		
Z223.1 NFIPA	National Fuel Gas Code, and Addenda Z223.1a-1987.....	1984
ANSI- Z21.1	Household Cooking Gas Appliances, and Addenda Z21.1a-1982, Z21.1b-1984.....	1982
ANSI- Z21.2	Gas Hose Connectors for Portable Indoor Gas-Fired Equipment, and Addenda Z21.2a-1985, Z21.b-1987.....	1983
ANSI- Z21.3	Hotel and Restaurant Gas Ranges and Unit Broilers.....	1982
ANSI- Z21.5.1	Gas Clothes Dryers, Volume I, Type 1 Clothes Dryers.....	1982
ANSI- Z21.5.2	Gas Clothes Dryers, Volume II, Type 2 Clothes Dryers, and Addenda Z21.5.2a-1981, Z21.5.2b-1982.....	1979
ANSI- Z21.8	Installation of Domestic Gas Conversion Burners.....	1984
ANSI- Z21.10.1	Gas Water Heaters, Volume I - Storage Water Heaters with Input Ratings of 75,000 BTU per Hour or Less.....	1987
ANSI- Z21.10.3	Gas Water Heaters, Volume III - Storage with Input Ratings above 75,000 BTU per Hour, Circulating and Instantaneous Water Heaters.....	1987
ANSI- Z21.11.1	Gas-Fired Room Heaters, Volume I, Vented Room Heaters, and Addenda Z21.11.1a-1985...	1983
ANSI- Z21.11.2	Gas-Fired Room Heaters, Volume II, Unvented Room Heaters, and Addenda Z21.11.2a-1984...	1983
ANSI- Z21.12	Draft Hoods, and Addenda Z21.12a-1983.....	1981
ANSI- Z21.13	Gas-Fired Low Pressure Steam and Hot Water Boilers, and Addenda Z21-13a-1983....	1982
ANSI- Z21.15	Manually Operated Gas Valves, and Addenda Z21.15a-1983, Z21.15b-1984.....	1979
ANSI- Z21.17	Domestic Gas Conversion Burners.....	1984
ANSI- Z21.19	Refrigerators Using Gas Fuel, and Addenda Z21.19a-1984.....	1983
ANSI- Z21.20	Automatic Gas Ignition Systems and Components, and Addenda Z21.20a-1987.....	1985
ANSI- Z21.21	Automatic Valves for Gas Appliances, and Addenda Z21.21a-1977, Z21.21b-1981.....	1974
ANSI- Z21.22	Relief Valves and Automatic Gas Shut Off Devices for Hot Water Supply Systems.....	1986
ANSI- Z21.23	Gas Appliance Thermostats, and Addenda Z21.23a-1985.....	1980
ANSI- Z21.24	Metal Connectors for Gas Appliances.....	1987
ANSI- Z21.27	Hotel and Restaurant Gas Deep Fat Fryers, and Addenda Z21.27a-1975, Z21.27b-1978..	1974
ANSI- Z21.28	Commercial Gas Baking and Roasting Ovens, and Addenda Z21.28a-1975, Z21.28b-1978...	1974
ANSI- Z21.40.1	Gas-Fired Absorption Summer Air Conditioning Appliances, and Addenda Z21.40.1a-1982..	1981
ANSI- Z21.41	Quick-Disconnect Devices for Use with Gas Fuel, and Addenda Z21.41a-1981, Z21.41b-1983..	1978
ANSI- Z21.42	Gas-Fired Illuminating Appliances, and Addenda Z21.42a-1973, Z21.42b-1981....	1971
ANSI- Z21.44	Gas-Fired Gravity and Fan Type Direct Vent Wall Furnaces, and Addenda Z21.44a-1985..	1985
ANSI- Z21.45	Flexible Connectors of Other than All Metal Construction for Gas Appliances, and Addenda Z21.45a 1987.....	1985
ANSI- Z21.46	Gas-Fired Kettles, Steam Cookers and Steam Generators and Addenda Z21.46a-1975, Z21.46b-1978.....	1974
ANSI- Z21.47	Gas-Fired Central Furnaces (Except Direct Vent Central Furnaces).....	1987
10 CRF Part 430	Test Procedures for Furnaces.....	1980
ANSI- Z21.48	Gas-Fired Gravity and Fan Type Floor Furnaces.....	1986
ANSI- Z21.49	Gas-Fired Gravity and Fan Type Vented Wall Furnaces.....	1986
ANSI- Z21.50	Vented Decorative Gas Appliances.....	1986

Reference Standard 15

ANSI- Z21.52	Gas-Fired Single Firebox Boiler, and Addenda Z21.52a-1973.....	1971
ANSI- Z21.54	Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances, and Addenda Z21.53a-1983, Z21.54b-1985.....	1979
ANSI- Z21.55	Gas-Fired Sauna Heaters, and Addenda Z21.55a-1980, Z21.55b-1981.....	1979
ANSI- Z21.56	Gas-Fired Pool Heaters and Addenda Z21.56a-1987.....	1986
ANSI- Z21.57	Recreational Vehicle Cooking Gas Appliances, and Addenda Z21.57a-1982, Z21.57b-1984..	1982
ANSI- Z21.58	Outdoor Cooking Gas Appliances.....	1987
ANSI- Z21.59	Gas-Fired High Pressure Steam and Hot Water Boilers.....	1974
ANSI- Z21.60	Decorative Gas Appliances for Installation in Vented Fireplaces, and Addenda Z21.60a-1982, Z21.60b-1984.....	1981
ANSI- Z21.64	Direct Vent Central Furnaces, and Addenda Z21.64a-1986, Z21.64b-1987.....	1985
ANSI- Z21.65	Separated Combustion System Central Furnaces.....	1978
ANSI- Z83.2	Gas Atmosphere Generators.....	1977
ANSI- Z83.3	Gas Utilization Equipment in Large Boilers, and Addenda Z83.3a-1972, Z83.3b-1976.....	1971
ANSI- Z83.4	Direct Gas-Fired Make-Up Air Heaters, and Addenda Z83.4a-1986.....	1985
ANSI- Z83.6	Gas-Fired Infrared Heaters, and Addenda Z83.6a-1984, Z83.6b-1985.....	1982
ANSI- Z83.7	Gas-Fired Construction Heaters.....	1974
ANSI- Z83.8	Gas Unit Heaters, and Addenda Z83.8a-1986.....	1985
ANSI-Z83.9	Gas-Fired Duct Furnaces.....	1986
ANSI-Z83.11	Gas Food Service Equipment -Ranges and Unit Broilers.....	1986
ANSI-Z83.12	Gas Food Service Equipment -Baking and Roasting Ovens.....	1986
ANSI-Z83.13	Gas Food Service Equipment -Deep Fat Fryers.....	1986
ANSI-Z83.14	Gas Food Service Equipment -Counter Appliances.....	1986
ANSI-Z83.15	Gas Food Service Equipment -Kettles, Steam Cookers, and Steam Generators.....	1986
ANSI/UL 103	Standard for Chimneys, Factory-Built Residential Type and Building Heating Appliances (February 1989 Revision).....	1988
ANSI/UL 441	Standard for Gas Vents.....	1986
ANSI/UL 710	Grease Extractors for Exhaust Ducts.....	1981
ANSI/UL 959	Standard for Medium Heat Appliance Factory-Built Chimneys (August 1988 Revision)....	1986
UL 103 TYPE HT	Standard for Low Heat Appliance Chimneys with High Temperature Tests Added.....	1983
UL 127	Standard for Factory-Built Fireplaces, as Modified.....	1988
UL 795	Commercial Industrial Gas-Heating Equipment, February 1982 Revision.....	1973
UL 1777	Chimney Liners.....	1988
ULC S-629M	Standard for 650°C Factory-Built Chimneys.....	1981
ANSI/NFiPA 211	Chimneys, Fireplaces and Vents.....	1984
ANSI/NFiPA 211	Standard for Chimneys, Fireplaces, Vents and Solid Fuel Burning Appliances.....	1988
ANSI/ASTM C105	Specification for Ground Fireclay as a Refractory Mortar for Laying Up Fireclay Brick (Reapproved 1981).....	1947
ANSI/ASTM-C270	Standard Specification for Mortar for Unit Masonry.....	1988
ANSI/ASTM-C315	Specifications for Clay Flue Linings (Reapproved 1983)	1978c
ANSI/ASTM-C401	Classification of Castable Refractories.....	1984
ANSI/ASTM-C64	Specifications for Refractories for Incinerators and Boilers (Reapproved 1977).....	1972
ANSI/ASTM-C279	Specifications for Chemical Resistant Masonry.....	1979

Reference Standard 15

Note: Wherever in these standards reference is made to the “National Electrical Code”

the work so covered shall meet the requirements of the Electrical Code of the City of New York.

**947-87 BCR; Local Law 80-1989*

****REFERENCE STANDARD RS 15-1**

AGA/ANSI-Z223.1/ NFIPA No. 54-1984 - National Fuel Gas Code, and Addenda Z223.1a-1987.

***947-87 BCR*

****REFERENCE STANDARD RS 15-2**

ANSI-Z21.1-1982—Household Cooking Gas Appliance, and Addenda Z21.1a-1982, Z21.1b-1984.

ANSI-A21.2-1983—Gas Hose Connectors for Portable Indoor Gas-Fired Equipment, and Addenda Z21.2a-1985, Z21.2b-1987.

ANSI-Z21.3-1982—Hotel and Restaurant Gas Ranges and Unit Broilers.

ANSI-Z21.5.1-1982—Gas Clothes Dryers, Volume I, Type 1 Clothes Dryers.

ANSI-Z21.5.2-1979—Gas Clothes Dryers Volume II, Type 2 Clothes Dryers, and Addenda Z21.5.2a-1981, Z21.5.2b-1982.

ANSI-Z21.8-1984—Installation of Domestic Gas Conversion Burners.

ANSI-Z21.10.1-1987—Gas Water Heaters, Volume I, Storage Water Heaters with Input Ratings of 75,000 BTU per Hour or Less.

ANSI-Z21.10.3-1987—Gas Water Heaters, Volume III, Storage with Input Ratings above 75,000 BTU per Hour, Circulating and Instantaneous Water Heaters.

ANSI-Z21.11.1-1983—Gas-Fired Room Heaters, Volume I, Vented Room Heaters, and Addenda Z21.11.1a-1985.

ANSI-Z21.11.2-1983—Gas-Fired Room Heaters, Volume II, Unvented Room Heaters, and Addenda 1.11.2a-1984.

ANSI-Z21.12-1981—Draft Hoods, and Addenda Z21.12a-1983.

ANSI-Z21.13-1982—Gas-Fired Low Pressure Steam and Hot Water Boilers, and Addenda Z21.13a-1983.

ANSI-Z21.15-1979—Manually Operated Gas Valves, and Addenda Z21.15a-1981, Z21.15b-1984.

ANSI-Z21.17-1984—Domestic Gas Conversion Burners.

ANSI-Z21.19-1983—Refrigerators Using Gas Fuel, and Addenda Z21.19a-1984.

ANSI-Z21.20-1985—Automatic Gas Ignition Systems and Components, and Addenda Z21.20a-1987.

ANSI-Z21.21-1974—Automatic Valves for Gas Appliances, and Addenda Z21.21a-1977, Z21.21b-1981.

ANSI-Z21.22-1986—Relief Valves and Automatic Gas Shut off Devices for Hot Water Supply Systems.

ANSI-Z21.23-1980—Gas Appliance Thermostats, and Addenda Z21.23a-1985.

ANSI-Z21.24-1987—Metal Connectors for Gas Appliances.

ANSI-Z21.27-1974—Hotel and Restaurant Gas Deep Fat Fryers, and Addenda Z21.27a-1975, Z21.27b-1978.

ANSI-Z21.28-1974—Commercial Gas Baking and Roasting Ovens, and Addenda Z21.28a-1975, Z21.28b-1978.

ANSI-Z21.40.1-1981—Gas-Fired Absorption Summer Air Conditioning Appliances, and Addenda Z21.40.1a-1982.

ANSI-Z21.41-1978—Quick-Disconnect Devices for Use with Gas Fuel, and Addenda Z21.41a-1981, Z21.41b-1983.

ANSI-Z21.42-1971—Gas-Fired Illuminating Appliances, and Addenda Z21.42a-1973, Z21.42b-1981.

ANSI-Z21.44-1985—Gas-Fired Gravity and Fan Type Direct Vent Wall Furnaces, and Addenda Z21.44a-1985.

ANSI-Z21.45-1985—Flexible Connectors of Other than All Metal Construction for Gas Appliances, and Addenda Z21.45a-1987.

ANSI-Z21.46-1974—Gas-Fired Kettles, Steam Cookers and Steam Generators, and Addenda Z21.46a-1975, Z21.46b-1978.

10 CFR Part 430-1980- Test Procedures for Furnaces.

ANSI-Z21.47-1987—Gas-Fired Central Furnaces (Except Direct Vent Central Furnaces).

ANSI-Z21.48-1986—Gas-Fired Gravity and Fan Type Floor Furnaces.

ANSI-Z21.49-1986—Gas-Fired Gravity and Fan Type Vented Wall Furnaces.

ANSI-Z21.50-1986—Vented Decorative Gas Appliances.

ANSI-Z21.52-1971—Gas-Fired Single Firebox Boiler, and Addenda Z21.52a-1973.

ANSI-Z21.54-1979—Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances, and Addenda Z21.54a-1983, Z21.54b-1985.

ANSI-Z21.55-1979—Gas-Fired Sauna Heaters, and Addenda Z21.55a-1980, Z21.55b-1981.

ANSI-Z21.56-1986—Gas-Fired Pool Heaters.

ANSI-Z21.57-1982—Recreational Vehicle Cooking Gas Appliances, and Addenda Z21.57a-1982, Z21.57b-1984

ANSI-Z21.58-1987—Outdoor Cooking Gas Appliances.

ANSI-Z21.59-1974—Gas-Fired High Pressure Steam and Hot Water Boilers.

ANSI-Z21.60-1981—Decorative Gas Appliances for Installation in Vented Fireplaces, and Addenda Z21.60a-1982, Z21.60b-1984.

ANSI-Z21.64-1985—Direct Vent Central Furnaces, and Addenda Z21.64a-1986, Z21.64b-1987.

Reference Standard 15

ANSI-Z21.65-1978—Separated Combustion System Central Furnaces.
ANSI-Z83.2-1977—Gas Atmosphere Generators.
ANSI-Z83.3-1971—Gas Utilization Equipment in Large Boilers, and Addenda Z83.3a-1972, Z83.3b-1976.
ANSI-Z83.6-1982—Gas-Fired Infrared Heaters, and Addenda Z83.6a-1984, Z83.6b-1985.
ANSI-Z83.7-1974—Gas-Fired Construction Heaters.
ANSI-Z83.8-1985—Gas Unit Heaters, and Addenda Z83.8a-1986.
ANSI-Z83.9-1986—Gas-Fired Duct Furnaces.
ANSI-Z83.11-1986—Gas Food Service Equipment - Ranges and Unit Broilers.
ANSI-Z83.12-1986—Gas Food Service Equipment - Baking and Roasting Ovens.
ANSI-Z83.13-1986—Gas Food Service Equipment - Deep Fat Fryers.
ANSI-Z83.14-1986—Gas Food Service Equipment - Counter Appliances.
ANSI-Z83.15-1986—Gas Food Service Equipment - Kettles, Steam Cookers and Steam Generators.
ANSI/UL 710-1981—Grease Extractors for Exhaust Ducts.
UL 795-1973—Commercial-Industrial Gas-Heating Equipment, February 1982 Revision.
ANSI/NFiPA 211-1984—Chimneys, Fireplaces and Vents
**** 947-87 BCR**

* REFERENCE STANDARD RS 15-3

ANSI/ASTM-C270 1988—Standard Specification for Mortar for Unit Masonry.
*** 947-87 BCR; 1050-83 BCR; Local Law 80-1989**

† REFERENCE STANDARD RS 15-4

ANSI/ASTM-C315 1978c—Specifications for Clay Flue Linings (Reapproved 1983).
† 947-87 BCR; 1050-83 BCR

** REFERENCE STANDARD RS 15-5

ANSI/ASTM-C401 1984—Classification for Castable Refractories.
**** 947-87 BCR; 939-80 BCR**

*** REFERENCE STANDARD RS 15-6

ANSI/ASTM-C64 1972—Specifications for Refractories for Incinerators and Boilers (Reapproved 1977).
ANSI/ASTM C105-1947—Specifications for Ground Fireclay as a Refractory Mortar for Laying Up Fireclay Brick (Reapproved 1981).
*****1050-83 BCR; Local Law 80-1989**

* REFERENCE STANDARD RS 15-7

ANSI/ASTM-C64 1972—Specifications for Refractories for Incinerators and Boilers (Reapproved 1977).
***1050 – 83 BCR**

* REFERENCE STANDARD RS 15-8

ANSI/ASTM-C279 1979—Specifications for Chemical-Resistant Masonry Units.
***1050 – 83 BCR**

** REFERENCE STANDARD RS 15-8[A]†

ANSI/UL 103-1988—Standard for Chimneys, Factory-Built, Residential Type and Building Heating Appliances (February 1989 Revision).
**** 1050-83 BCR: Local Law 80-1989**
†Copy in brackets not enacted but probably intended.

*** REFERENCE STANDARD RS 15-9

UL 103 Type HT-1988—Standard for Low Heat Appliance Chimneys With High Temperature Tests Added (February 1989 Revision).
***** Local Law 80-1989**

*** REFERENCE STANDARD RS 15-10

ANSI/UL 959-1986—Standard for Medium Heat Appliance Factory-Built Chimneys (August 1988 Revision).
***** Local Law 80-1989**

*** REFERENCE STANDARD RS 15-11

Factory-built Chimneys, 1400 Degrees Fahrenheit.
1. Application. Factory-built 1400 degree Fahrenheit chimneys are intended for venting fuel gases, at a temperature not exceeding 1400 degrees Fahrenheit under continuous operating conditions, from building heating appliances and other low heat appliances as specified in the Chimney Selection Chart of the National Fire Protection Association

Reference Standard 15

Standard No. 211.

2. Installation. These chimneys are to be installed in accordance with the installation instructions provided with each chimney assembly. They are not to be enclosed within combustible construction, but an interior chimney is to be enclosed in a noncombustible fire resistant shaft of appropriate size and rating where the chimney extends through any story of a building above that in which the connected appliance is located. An unenclosed chimney may be placed adjacent to walls of combustible construction at the clearances specified for each chimney section in the individual listing and acceptance and in article 15 of this code.

3. Chimney system. Each 1400 degree Fahrenheit factory-built chimney consists of one or more chimney sections, a chimney cap, lateral supports, thimble and flashing assembly as needed and other parts as specified in the installation instructions provided with each chimney system.

4. Standards. The equipment shall comply with the following standards:

ANSI/UL 103-1988—Standard for chimneys, factory-built, residential type and building heating appliances (February 1989 revision).

ANSI/UL 959-1986—Standard for medium heat appliance factory-built chimneys.

5. Identification. Equipment listed and accepted by this standard shall be identified with the following: "1400 Degree Fahrenheit Chimney Part."

*** *Local Law 80-1989*

*** REFERENCE STANDARD RS 15-12

ULC S629M-1981—Standard for 650⁰C Factory-Built Chimneys.

*** *Local Law 80-1989*

*** REFERENCE STANDARD RS 15-13

ANSI/UL 441-1986 - Standard for Gas Vents.

*** *Local Law 80-1989*

*** REFERENCE STANDARD RS 15-14

ANSI/NFiPA 211-1988 - Standard for Chimneys, Fireplaces, Vents and Solid Fuel Burning Appliances.

*** *Local Law 80-1989*

*** REFERENCE STANDARD RS 15-15

UL 127-1988 - Standard for Factory-Built Fireplaces, as Modified.

Modifications. The provisions of UL 127-1988 shall be subject to the following modifications:

1.6 These requirements also cover fixed blowers and other electrical accessories for factory-built fireplaces, rated at 600 volts or less, and intended to be employed in ordinary locations in accordance with the New York City Electrical Code.

1.7 The factory-built chimneys servicing factory-built fireplaces covered by these requirements shall be installed only in buildings in residential occupancy groups J-2 and J-3 not more than forty feet or three stories in height when used with a 1700 degree Fahrenheit chimney.

*** *Local Law 80-1989*

*** REFERENCE STANDARD RS 15-16

UL 1777-1988 - Standard for Chimney Liners.

*** *Local Law 80-1989*

Reference Standard 15

This page is intended to be left blank