

## IFGC/IFGS CHAPTER 8

# REFERENCED STANDARDS

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in Section ~~(102.8)~~ 103.8.

## ANSI

American National Standards Institute  
25 West 43rd Street  
Fourth Floor  
New York, NY 10036

Standard reference number	Title	Referenced in code section number
ANSI A13.1—2007	Scheme for the Identification of Piping Systems . . . . .	704.1.2.2
ANSI FC 1—2012	Stationary Fuel Cell Power Systems . . . . .	633.1
LC 1/CSA 6.26—13	Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST) . . . . .	403.5.4
ANSI LC-4/CSA 6.32—12	Press-connect Metallic Fittings for Use In Fuel Gas Distribution Systems . . . . .	403.10.2
Z21.1—2010	Household Cooking Gas Appliances . . . . .	623.1
Z21.5.1/CSA 7.1—2014	Gas Clothes Dryers—Volume I—Type 1 Clothes Dryers . . . . .	613.1
Z21.5.2/CSA 7.2—2014	Gas Clothes Dryers—Volume II—Type 2 Clothes Dryers . . . . .	613.1, 614.3
Z21.8—94 (R2002)	Installation of Domestic Gas Conversion Burners . . . . .	619.1
Z21.10.1/CSA 4.1—2012	Gas Water Heaters—Volume I—Storage, Water Heaters with Input Ratings of 75,000 Btu per Hour or Less . . . . .	624.1
Z21.10.3/CSA 4.3—2011	Gas Water Heaters—Volume III—Storage, Water Heaters with Input Ratings Above 75,000 Btu per hour, Circulating and Instantaneous . . . . .	624.1
Z21.11.2—2011	Gas-fired Room Heaters—Volume II—Unvented Room Heaters . . . . .	621.1
Z21.13/CSA 4.9—2011	Gas-fired Low-pressure Steam and Hot Water Boilers . . . . .	631.1
Z21.15/CGA 9.1—09	Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves . . . . .	Table 409.1.1
Z21.19/CSA 1.4—02(R2007)	Refrigerators Using Gas (R1999) Fuel . . . . .	625.1
Z21.24/CGA 6.10—06	Connectors for Gas Appliances . . . . .	411.1, 411.3
Z21.40.1/CGA 2.91—96 (R2011)	Gas-Fired Heat Activated Air Conditioning and Heat Pump Appliances . . . . .	627.1
Z21.40.2/CGA 2.92—96 (R2011)	Gas-Fired Work Activated Air Conditioning and Heat Pump Appliances (Internal Combustion) . . . . .	627.1
Z21.42—2014	Gas-Fired Illuminating Appliances . . . . .	628.1
Z21.47/CSA 2.3—2012	Gas-Fired Central Furnaces . . . . .	618.1
Z21.50/CSA 2.22—2012	Vented Gas Fireplaces . . . . .	604.1
Z21.54—09	Gas Hose Connectors for Portable Outdoor Gas Fired Appliances . . . . .	411.1
Z21.56/CSA 4.7—2013	Gas-Fired Pool Heaters . . . . .	617.1
Z21.58/CSA 1.6—2013	Outdoor Cooking Gas Appliances . . . . .	623.1
Z21.60/CSA 2.26—2012	Decorative Gas Appliances for Installation in Solid-fuel Burning Fireplaces . . . . .	602.1
Z21.61—83 (R2004)	Gas-fired Toilets . . . . .	626.1
Z21.69/CSA 6.16—09	Connectors for Movable Gas Appliances . . . . .	411.1.1, 411.1.4
Z21.75/CSA 6.27—07	Connectors for Outdoor Gas Appliances and Manufactured Homes . . . . .	411.1, 411.2
Z21.80/CSA 6.22—11	Line Pressure Regulators . . . . .	410.1
Z21.84—2012	Manually-lighted, Natural Gas Decorative Gas Appliances for Installation in Solid Fuel Burning Fireplaces . . . . .	602.1, 602.2
Z21.86/CSA 2.32—08	Vented Gas-fired Space Heating Appliances . . . . .	608.1, 609.1, 622.1
Z21.88/CSA 2.33—2014	Vented Gas Fireplace Heaters . . . . .	605.1
Z21.91—07	Ventless Firebox Enclosures for Gas-fired Unvented Decorative Room Heaters . . . . .	621.7.1
Z21.97—2012	Outdoor Decorative Appliances . . . . .	636.1
Z83.4/CSA 3.7—2012	Nonrecirculating Direct-gas-fired Industrial Air Heaters . . . . .	611.1
Z83.8/CSA 2.6—09	Gas Unit Heater, Gas Packaged Heater, Gas Utility Heaters and Gas-fired Duct Furnaces . . . . .	610.1, 620.1
Z83.11/CSA 1.8—2013	Gas Food Service Equipment . . . . .	623.1
Z83.18—2012	Recirculating Direct Gas-fired Industrial Air Heaters . . . . .	612.1
Z83.19—01(R2009)	Gas-fired High-intensity Infrared Heaters . . . . .	630.1
Z83.20—08	Gas-fired Low-intensity Infrared Heaters . . . . .	630.1

**REFERENCED STANDARDS**

**ASME**

American Society of Mechanical Engineers  
 Three Park Avenue  
 New York, NY 10016-5990

Standard reference number	Title	Referenced in code section number
B1.20.1—83 (Reaffirmed 2006)	Pipe Threads, General Purpose (inch) . . . . .	403.9
B16.1—2010	Cast-iron Pipe Flanges and Flanged Fittings, Class 25, 125 and 250 . . . . .	403.12.1
B16.5—R2009	Pipe Flanges and Flanged Fittings: NPS 1/2 through NFPS 24 Metric/Inch Standard . . . . .	403.12.2
B16.24—2011	Cast Copper Alloy Pipe Flanges and Flanged Fittings: Classes 150, 300, 600, 900, 1500 and 2500 . . . . .	403.12.3
B16.42—2011	Ductile Iron Pipe Flanges and Flanged Fittings, Classes 150 and 300 . . . . .	403.12.4
B16.47—2011	Large Diameter Steel Flanges: NPS 26 through NPS 60 Metric/Inch Standard . . . . .	403.12.2
B16.33—2012	Manually Operated Metallic Gas Valves for Use in Gas Piping Systems up to 125 psig (Sizes 1/2 through 2) . . . . .	Table 409.1.1
B16.44—2002 (Reaffirmed 2007)	Manually Operated Metallic Gas Valves for Use in Aboveground Piping Systems Up to 5 psi . . . . .	Table 409.1.1
B31.3—2012	Process Piping . . . . .	704.1.2.4
B31.12—2008	Hydrogen Piping and Pipelines . . . . .	704.1.2, 704.1.2.4, 705.2, 705.3
B36.10M—2004	Welded and Seamless Wrought-steel Pipe . . . . .	403.4.2
BPVC—2010/2011 addenda	ASME Boiler & Pressure Vessel Code (2007 Edition) . . . . .	631.1, 703.2.2, 703.3.3, 703.3.4
CSD-1—2011	Controls and Safety Devices for Automatically Fired Boilers . . . . .	631.1

**ASTM**

ASTM International  
 100 Barr Harbor Drive  
 West Conshohocken, PA 19428-2959

Standard reference number	Title	Referenced in code section number
A 53/A 53M—12	Specification for Pipe, Steel, Black and Hot Dipped Zinc-coated Welded and Seamless . . . . .	403.4.2
A 106/A 106M—11	Specification for Seamless Carbon Steel Pipe for High-temperature Service . . . . .	403.4.2
A 254—97 (2007)	Specification for Copper Brazed Steel Tubing . . . . .	403.5.1
B 88—09	Specification for Seamless Copper Water Tube . . . . .	403.5.2
B 210—12	Specification for Aluminum and Aluminum-alloy Drawn Seamless Tubes . . . . .	403.5.3
B 241/B 241M—12E1	Specification for Aluminum and Aluminum-alloy, Seamless Pipe and Seamless Extruded Tube . . . . .	403.4.4, 403.5.3
B280—08	Standard Specification for Seamless Copper Tube for Air-Conditioning and Refrigeration Field Service . . . . .	403.5.2
C 315—07(2011)	Specification for Clay Flue Liners and Chimney Pots . . . . .	501.12
D 2513—2013E1	Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing and Fittings . . . . .	403.6, 403.6.1, 403.11, 404.17.2
E136—2012	Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C . . . . .	202
F 1973—08	Standard Specification for Factory Assembled Anodeless Risers and Transition Fittings in Polyethylene (PE) and Polyamide 11 (PA11) and Polyamide 12 (PA12) Fuel Gas Distribution Systems . . . . .	404.17.2

**CGA**

Compressed Gas Association  
 14501 George Carter Way, Suite 103  
 Chantilly, VA 20151-2923

Standard reference number	Title	Referenced in code section number
S-1.1—(2011)	Pressure Relief Device Standards—Part 1—Cylinders for Compressed Gases . . . . .	703.3
S-1.2—(2005)	Pressure Relief Device Standards—Part 2—Cargo and Portable Tanks for Compressed Gases . . . . .	703.3
S-1.3—(2008)	Pressure Relief Device Standards—Part 3—Stationary Storage Containers for Compressed Gases . . . . .	703.3

# CSA

CSA America Inc.  
8501 E. Pleasant Valley Rd.  
Cleveland, OH USA 44131-5575

Standard reference number	Title	Referenced in code section number
ANSI CSA America FC1—2012	Stationary Fuel Cell Power Systems . . . . .	633.1
CSA 8—93	Requirements for Gas-fired Log Lighters for Wood Burning Fireplaces— with Revisions through January 1999 . . . . .	603.1

# DOTn

Department of Transportation  
400 Seventh St. SW.  
Washington, DC 20590

Standard reference number	Title	Referenced in code section number
49 CFR, Parts 192.281(e) & 192.283 (b)—(2009)	Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards . . . . .	403.6.1
49 CFR Parts 100—180	Hazardous Materials Regulations . . . . .	703.2.2, 703.3.3, 703.3.4

# ICC

International Code Council, Inc.  
500 New Jersey Ave. NW  
6th Floor  
Washington, DC 20001

Standard reference number	Title	Referenced in code section number
IBC—15	International Building Code® . . . . .	102.2.1, 201.3, 301.10, 301.11, 301.12, 301.14, 302.1, 302.2, 305.6, 306.5.1, 06.6, 401.1.1, 412.6, 413.3, 413.3.1, 501.1, 501.3, 501.12, 501.15.4, 501.15.4.1, 609.3, 614.10, 633.1, 635.1, 706.2
IECC—15	International Energy Conservation Code® . . . . .	301.2
IFC—15	International Fire Code® . . . . .	201.3, 401.2, 412.1, 412.6, 412.7, 412.7.3, 412.8, 413.1, 413.3, 413.3.1, 413.5, 413.9.2.5, 633.1, 701.1, 701.2, 703.2, 703.2.2, 703.3.8, 703.4, 703.5, 704.1.2, 704.3, 704.4, 706.2, 706.3, 707.1, 707.2, 708.1
IMC—15	International Mechanical Code® . . . . .	101.2.5, 201.3, 301.1.1, 301.13, 304.11, 307.1, 307.5, 501.1, 614.2, 614.10, 618.4, 621.1, 624.1, 631.2, 632.1, 703.1.2
IPC—15	International Plumbing Code® . . . . .	201.3, 301.6, 307.3, 624.1.1, 624.2
IRC—15	International Residential Code® . . . . .	101.2, 703.2.1

# MSS

Manufacturers Standardization Society of  
the Valve and Fittings Industry  
127 Park Street, Northeast  
Vienna, VA 22180

Standard reference number	Title	Referenced in code section number
SP 58—2009	Pipe Hangers and Supports-Materials, Design and Manufacture . . . . .	407.2

REFERENCED STANDARDS

**NFPA**

National Fire Protection Association  
 1 Batterymarch Park  
 Quincy, MA 02269-9101

Standard reference number	Title	Referenced in code section number
30A—15	Code for Motor Fuel Dispensing Facilities and Repair Garages . . . . .	305.4, 305.10
37—15	Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines . . . . .	.616.1
51—13	Design and Installation of Oxygen-fuel Gas Systems for Welding, Cutting and Allied Processes. . . . .	.414.1
58—14	Liquefied Petroleum Gas Code . . . . .	.401.2, 402.6, 403.6.2, 403.11
70—14	National Electrical Code . . . . .	.306.3.1, 306.4.1, 306.5.2, 309.2, 310.1.1.2, 413.9.2.4, 703.6
82—14	Incinerators, Waste and Linen Handling Systems and Equipment . . . . .	503.2.5, T503.4, 607.1
85—15	Boiler and Combustion Systems Hazards Code. . . . .	.631.1
88A—15	Parking Structures . . . . .	.305.9
211—13	Standard for the Chimneys, Fireplaces, Vents and Solid Fuel-burning Appliances . . . . .	.503.5.2, 503.5.3, 503.5.6.1, 503.5.6.3
409—11	Standard for the Aircraft Hangars . . . . .	.305.11
853—15	Installation of Stationary Fuel Cell Power Systems. . . . .	.633.1

**UL**

UL LLC  
 333 Pfingsten Road  
 Northbrook, IL 60062

Standard reference number	Title	Referenced in code section number
103—2010	Factory-built Chimneys, Residential Type and Building Heating Appliances— with Revisions through July 2012. . . . .	.506.1
127—2011	Factory-built Fireplaces . . . . .	.621.7
441—2010	Gas Vents . . . . .	.502.1
641—2010	Type L Low-temperature Venting Systems—with Revisions through May 2013 . . . . .	.502.1
651—2011	Schedule 40 and 80 Rigid PVC Conduit and Fittings—with Revisions through March 2012 . . . . .	403.6.3
795—2011	Commercial-industrial Gas Heating Equipment— with Revisions through September 2012 . . . . .	.610.1, 618.1, 631.1
959—2010	Medium Heat Appliance Factory-built Chimneys . . . . .	.506.3
1618—09	Wall Protectors, Floor Protectors and Hearth Extensions—with Revisions through May 2013 . . . . .	.308.2
1738—2010	Venting Systems for Gas Burning Appliances, Categories II, III and IV— with Revisions through May 2011 . . . . .	.502.1
1777—2007	Chimney Liners—with Revisions through July 2009 . . . . .	.501.12, 501.15.4
2200—2012	Stationary Engine Generator Assemblies—with Revisions through June 2013 . . . . .	.616.1