CHAPTER 15

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 102.4 of the *Florida Building Code, Building.*

ACCA

Air Conditioning Contractors of America

2800 Shirlington Road, Suite 300

Arlington, VA 22206

Standard Referenced  
reference in code  
number Title section number

Manual D—2016 Residential Duct Systems 601.5, 603.2

183—2007 Peak Cooling and Heating Load Calculations in Buildings   
(reaffirmed 2011)  Except Low-rise Residential Buildings 312.1

Add new standard(s) as follows:

**ACCA**

ANSI/ACCA 10 Manual SPS - 2010 RA 2017: HVAC Design for Swimming Pools and Spas

(M8448/M18-18 AS)

AHRI

Air-Conditioning, Heating and Refrigeration Institute

4100 North Fairfax Drive, Suite 200

Arlington, VA 22203

Standard Referenced  
reference in code  
number Title section number

~~700—2015~~ 700—2017 with Addendum 1: Specifications for Refrigerants 1102.2.2.3

AMCA

Air Movement and Control Association International

30 West University Drive

Arlington Heights, IL 60004

Standard Referenced  
reference in code  
number Title section number

ANSI/AMCA ~~210–ANSI~~ 210–16/ASHRAE ~~51—07~~ 51—16

Laboratory Methods of Testing Fans for Aerodynamic  
  Performance Rating 403.3.2.4

ANSI/AMCA 230—15 Laboratory Methods of Testing Air Circulating Fans for Rating and Certification 929.1

ANSI/AMCA 550—09 (Rev.09/18)

Test Method for High Velocity Wind Driven Rain Resistant Louvers 401.5, 501.3.2

ANSI

American National Standards Institute

11 West 42nd Street

New York, NY 10036

Standard Referenced  
reference in code  
number Title section number

~~Z21.1—2010~~ Z21.1/CSA 1.1—2016Household Cooking Gas Appliances

Z21.8—1994 (~~R2002~~ R2012) Installation of Domestic Gas Conversion Burners 919.1

ASHRAE

ASHRAE

1791 Tullie Circle, NE

Atlanta, GA 30329

Standard Referenced  
reference in code  
number Title section number

~~ASHRAE—2017~~ ASHRAE— 2021 ASHRAE Fundamentals Handbook 603.2

~~15—2016~~ 15—2019 Safety Standard for Refrigeration Systems 1101.6, 1105.8, 1108.1

~~34—2016~~ 34—2019 Designation and Safety Classification of Refrigerants 202, 1102.2.1, 1103.1

~~62.1—2016~~ 62.1—2019 Ventilation for Acceptable Indoor Air Quality 403.3.1.1.2.3.2

170—2017 Ventilation of Health Care Facilities 407

|  |
| --- |
| Standard Practice for Inspection and Maintenance of Commercial Building HVAC |
| Systems |

~~180-2012~~ 180-2018

ANSI/AMCA 210-

ANSI/ASHRAE 51—07 Laboratory Methods of Testing Fans for Aerodynamic Performance Rating 403.3.2.4

ASME

American Society of Mechanical Engineers

Three Park Avenue

New York, NY 10016-5990

Standard Referenced  
reference in code  
number Title section number

A112.4.1—2009(R2019) Water Heater Relief Valve Drain Tubes

~~B1.20.1—2013~~ B1.20.1— 2019 Pipe Threads, General Purpose (Inch) 1203.3.5, 1303.3.3

~~B16.3—2016~~ B16.3—2021 Malleable Iron Threaded Fittings, Classes 150 & 300 Table 1202.5

~~B16.5—2015~~ B16.5—2019 Pipe Flanges and Flanged Fittings: NPS 1/2 through NFPS 24 Metric/Inch Standard

~~B16.15—2013~~ B16.15— 2018 Pipe Flanges and Flanged Fittings NPS 1/2 through NPS 24 Table 1202.5

~~B16.9—2012~~ B16.9—2018 Factory Made Wrought Steel Buttwelding Fittings Table 1202.5

~~B16.11—2016~~ B16.11— 2021 Forged Fittings, Socket-welding and Threaded Table 1202.5

~~B16.15—2013~~ B16.15-2018 Cast Alloy Threaded Fittings Classes 125 and 250 Table 1202.5

~~B16.18—2012~~ B16.18— 2018 Cast Copper Alloy Solder Joint Pressure Fittings 513.13.1, Table 1202.5  
~~B16.22—2013~~ B16.22— 2018 Wrought Copper and Copper Alloy Solder Joint Pressure Fittings 513.13.1, Table 1202.5

~~B16.24—2016~~ B16.24— 2021 Cast Copper Alloy Pipe Flanges and Flanged Fittings: Class 150, 300,   
  400, 600, 900, 1500 and 2500 Table 1202.5

~~B16.26—2016~~ B16.26— 2018 Cast Copper Alloy Fittings for Flared Copper Tubes Table 1202.5

B16.28—1994 Wrought Steel Buttwelding Short Radius Elbows and Returns Table 1202.5

~~B16.51—2013~~ B16.51— 2018 Copper and Copper Alloy Press-Connect Pressure Fittings Table 1202.5, Table 1302.3

~~B31.9—2014~~ B31.9—2020 Refrigeration Piping and Heat Transfer Components 1107.1

B31.9—~~2014~~2020 Building Services Piping 1201.3

~~B125.1070—15~~ B125.1070—20 Pipe Threads, General Purpose (inch)

~~BPVC—2015~~ BPVC—2019 ASME Boiler & Pressure Vessel Code–~~07 Edition~~ 1009.2, 1003.1, 1004.1, 1011.1

~~CSD-1—2016~~ CSD-1— 2021 Controls and Safety Devices for Automatically Fired Boilers 1004.1

ASSE

American Society of Safety Engineers

1800 East Oakton Street

Des Plaines, IL 60018

Standard Referenced  
reference in code  
number Title section number

ANSI/ASSE ~~Z359.1—2016~~ ASSP Z359.1—2019

~~Requirements for the ANSI/ASSE Z359~~ The Fall Protection Code 304.11

ASSE

American Society of Sanitary Engineering

901 Canterbury, Suite A

Westlake, OH 44145

Standard Referenced  
reference in code  
number Title section number

~~1017—2010~~ 1017—2009 Performance Requirements for Temperature Actuated Mixing   
  Values for Hot Water Distribution Systems 1002.2.2

1061—2015 Performance Requirements for Push Fit Fittings Table 1202.5

ASTM

ASTM International

100 Barr Harbor Drive

West Conshohocken, PA 19428

Standard Referenced  
reference in code  
number Title section number

A53/~~A53M—12~~ A53M— 2018 Specification for Pipe, Steel, Black and Hot-dipped,  
  Zinc-coated Welded and Seamless Table 1202.4, Table 1202.5, Table 1302.3

A106/~~A106M—14~~ A106M— 2018 Specification for Seamless Carbon Steel Pipe for   
  High-Temperature Service Table 1302.3, Table 1202.5,

Table 1202.4

A126—04(2014) Specification for Gray Iron Castings for Valves, Flanges and Pipe Fittings Table 1202.5

A234/~~A234M—15~~ A234M— 18A

Standard Specification for Piping Fittings of Wrought Carbon Steel   
  and Alloy Steel for Moderate and High Temperature Service Table 1202.5

~~A254—12~~ A254— 2010(2018) Specification for Copper Brazed Steel Tubing Table 1202.4, Table 1302.3

A395/A395M-99(2014) Standard Specification for Ferritic Ductile Iron Pressure-Retaining   
  Castings for Use at Elevated Temperatures Table 1202.5

A420/A420M~~—14~~2016 Specification for Piping Fittings of Wrought Carbon Steel   
  and Alloy Steel for Low-Temperature Service Table 1202.5

A536—84(2014) Standard Specification for Ductile Iron Castings Table 1202.5

A539—99 Specification for Electric-resistance-welded Coiled Steel Tubing   
  for Gas and Fuel Oil Lines Table 1302.3

B32—08(2014) Specification for Solder Metal 1203.3.3

B42—10 Specification for Seamless Copper Pipe, Standard Sizes 513.13.1, 1107.5.2, Table 1202.4,

Table 1302.3

B43—09 Specification for Seamless Red Brass Pipe, Standard Sizes 513.13.1, 1107.5.2,

Table 1202.4, Table 1302.3

B68/B68M—11 Specification for Seamless Copper Tube, Bright Annealed 513.13.1

B75/B75M—11 Specification for Seamless Copper Tube Table 1202.4, Table 1302.3

~~B88—14~~ B88—2016 Specification for Seamless Copper Water Tube 513.13.1, 1107.5.3,

Table 1202.4, Table 1302.3

~~B135—10~~ B135/B135M— 2017 Specification for Seamless Brass Tube Table 1202.4, Table 1302.3

~~B251—10~~ B251/B251M— 2017

Specification for General Requirements for Wrought Seamless   
  Copper and Copper-alloy Tube 513.13.1, Table 1202.4

~~B280—13~~ B280—2018 Specification for Seamless Copper Tube for Air Conditioning   
  and Refrigeration Field Service 513.13.1, 1107.5.3, Table 1302.3

~~B302—12~~ B302—2017 Specification for Threadless Copper Pipe, Standard Sizes Table 1202.4, Table 1302.3

~~B813—10~~ B813—2016 Specification for Liquid and Paste Fluxes for Soldering of   
~~B819—00(R2011)~~ B819— 2018 Standard Specification for Seamless Copper Tube for Medical Gas Systems

 Copper and Copper Alloy Tube 1203.3.3

~~B828—02(2010)~~ B828— 2016 Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings

~~C315—07~~ C315— 2007(~~2011~~ 2016) Specification for Clay Flue Liners and Chimney Pots 801.16.1, Table 803.10.4

~~C411—11~~ C411—2017 Test Method for Hot-surface Performance of High-temperature   
  Thermal Insulation 602.2.1.8, 604.3

~~D56—05(2010)~~ D56— 2016A Test Method for Flash Point by Tag Closed Cup Tester 202

~~D93—15~~ D93—2018 Test Method for Flash Point of Pensky-Martens Closed Cup Tester 202

D1527—99(2005) Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe,   
  Schedules 40 and 80 Table 1202.4

~~D1785—15~~ D1785—15E1 Specification for Poly (Vinyl Chloride)(PVC) Plastic Pipe,  
  Schedules 40, 80 and 120 Table 1202.4, Table 1210.4

~~D2235—04~~ D2235— 2004(~~2011~~ 2016) Specifications for Solvent Cement for Acrylonitrile-Butadiene-   
  Styrene (ABS) Plastic Pipe and Fittings 1203.3.4

D2241—15 Specification for Poly (Vinyl Chloride)(PVC)  
  Pressure-rated Pipe (SDR-Series) Table 1202.4, Table 1210.4

~~D2412—11~~ D2412— 2011(2018) Test Method for Determination of External Loading Characteristics   
   of Plastic Pipe by Parallel-plate Loading 603.8.3

D2464—15 Standard Specification for Threaded Poly(Vinyl Chloride) (PVC)   
  Plastic Pipe Fittings, Schedule 80 Table 1210.5

~~D2466—15~~ D2466—2017 Specification for Poly (Vinyl Chloride)(PVC)  
  Plastic Pipe Fittings, Schedule 40 Table 1202.5, Table 1210.5

D2467—15 Specification for Poly (Vinyl Chloride)(PVC)   
  Plastic Pipe Fittings, Schedule 80 Table 1202.5, Table 1210.5

~~D2564—12~~ D2564— 2012(2018)

Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC)   
  Plastic Piping Systems 1203.3.4

ASTM—continued

~~D2657—07~~ D2657— 2007(2015 Standard Practice for Heat Fusion Joining of Polyolefin  
  Pipe and Fittings 1210.6.6.1

D2661—01 Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain,   
  Waste, and Vent

Pipe and Fittings Table 515.2A

D2665—01 Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings Table 515.2A

D2683—14 Specification for Socket-type Polyethylene Fittings for Outside   
  Diameter-controlled Polyethylene Pipe and Tubing Table 1210.5, 1210.6.6.1

D2737—12A Standard Specification for Polyethylene (PE) Plastic Tubing Table 1210.4

D2846/~~D2846M—14~~ D2846M—2017BE1

Specification for Chlorinated Poly (Vinyl Chloride) (CPVC)   
  Plastic Hot and Cold Water Distribution Systems Table 1210.4,

Table 1202.4, 1203.3.4, Table 1210.5

D2949—97 3.25-in. Outside Diameter Poly (Vinyl Chloride) (PVC) Plastic Drain,   
  Waste, and Vent Pipe and Fittings Table 515.2A, 515.2B

~~D2996—01(2007)e01~~ D2996—2017

Specification for Filament-wound Fiberglass   
  (Glass Fiber Reinforced Thermosetting Resin) Pipe Table 1302.3

D3035—15 Specification for Polyethylene (PE) Plastic Pipe (DR-PR)   
  Based on Controlled Outside Diameter Table 1210.4

~~D3261—12e1~~ D3261—2016 Specification for Butt Heat Fusion Polyethylene (PE) Plastic Fittings   
  for Polyethylene (PE) Plastic Pipe and Tubing Table 1210.5, 1210.6.6.1

D3278—1996(2011) Test Methods for Flash Point of Liquids by Small Scale Closed-cup Apparatus 202

D3309—96a(2002) Specification for Polybutylene (PB) Plastic Hot and   
  Cold Water Distribution Systems 1203.10.1

D3311—94 Drain, Waste, and Vent (DWV) Plastic Pipe Fittings Patterns Table 515.2B

~~E84—2016~~ E84—2018B Standard Test Method for Surface Burning Characteristics of Building Materials 202, 510.9, 602.2, 602.2.1, 602.2.1.6, 602.2.1.6.1, 602.2.1.6.2,  
602.2.1.6.3, 602.2.1.7, 602.2.1.8, 604.3, 1204.1

~~E119—2016~~ E119—2018B Test Method for Fire Tests of Building Construction   
  and Materials 607.3.1, 607.5.2, 607.5.5, 607.6.1, 607.6.2.1

~~E136—16~~ E136—2016A Test Method for Behavior of Materials in a Vertical   
  Tube Furnace at 750 Degrees C 202

~~E814—13a~~ E814— 2013A(2017 Standard Test Method for Fire Tests of Through-penetration Fire Stops 506.3.11.2, 506.3.11.3

~~E1509—12~~ E1509— 2012(2017) Specification for Room Heaters, Pellet Fuel-burning Type 904.1

~~E2231—15~~ E2231—2018 Standard Practice For Specimen Preparation and Mounting of Pipe and   
  Duct Insulation Materials to Assess Surface Burning Characteristics 604.3, 1204.1

E2336—~~2016~~2018 Standard Test Methods for Fire Resistive Grease Duct Enclosure Systems 506.3.6, 506.3.11.2,

602.2.1.8

F409—02 Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings Table 515.2B

F437—15 Specification for Threaded Chlorinated Poly (Vinyl Chloride)   
  (CPVC) Plastic Pipe Fittings, Schedule 80 Table 1210.5

~~F438—15~~ F438—2017 Specification for Socket Type Chlorinated Poly (Vinyl Chloride)  
  (CPVC) Plastic Pipe Fittings, Schedule 40 Table 1202.5, Table 1210.5

F439—13 Specification for Socket Type Chlorinated Poly (Vinyl Chloride)   
  (CPVC) Plastic Pipe Fittings, Schedule 80 Table 1202.5, Table 1210.5

F441/F441M—15 Specification for Chlorinated Poly (Vinyl Chloride) (CPVC)   
  Plastic Pipe, Schedules 40 and 80 Table 1202.4, Table 1210.4

F442/F442M—13E1 Specification for Chlorinated Poly (Vinyl Chloride) (CPVC)   
  Plastic Pipe (SDR-PR) Table 1202.4, Table 1210.4

F493—14 Specification for Solvent Cements for Chlorinated Poly   
  (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings 1203.3.4

D2949—97 3.25-in. Outside Diameter Poly (Vinyl Chloride) (PVC) Plastic Drain,   
  Waste, and Vent Pipe and Fittings Table 515.2A, 515.2B

F714—13 Standard Specification for Polyethylene (PE) Plastic Pipe   
  (SDR-PR) based on Outside Diameter Table 1210.4

~~F876—15A~~ F876—2018A Specification for Cross-linked Polyethylene (PEX) Tubing Table 1202.4, Table 1210.4

~~F877—11a~~ F877—2018A Specification for Cross-linked Polyethylene (PEX)   
  Hot- and Cold-Water Distribution Systems Table 1202.4, Table 1202.5,

Table 1210.4, Table 1210.5

F891—00 Coextruded Poly (Vinyl Chloride) (PVC) Plastic   
  Pipe with Cellular Core Table 515.2A, Table 515.2B

~~F1055—13~~ F1055—2016A Specification for Electrofusion Type Polyethylene Fittings for   
  Outside Diameter Controlled Polyethylene and   
  Cross-linked Polyethylene Pipe and Tubing Table 1210.5, 1210.6.6.2

ASTM—continued

~~F1281—11~~ F1281—2017 Specification for Cross-linked Polyethylene/Aluminum/Crosslinked   
  Polyethylene (PEX-AL-PEX) Pressure Pipe Table 1202.4

~~F1282—10~~ F1282—2017 Standard Specification for Polyethylene/Aluminum/  
  Polyethylene (PE-AL-PE) Composite Pressure Pipe Table 1202.4. Table 1210.4,

Table 1210.5

F1476—07(2013) Specification for Performance of Gasketed Mechanical   
  Couplings for Use in Piping Applications Table 1202.5, 1203.3.7

~~F1548—01~~ F1548— 2001(~~2012~~ 2018)

Standard Specification for the Performance of Fittings for Use with   
  Gasketed Mechanical Couplings Used in Piping Applications Table 1202.5

~~F1807—15~~ F1807—2018

Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp   
  Ring for SDR 9 Cross-linked Polyethylene (PEX) Tubing and SDR9   
  Polethylene of Raised Temperature (PE-RT) Tubing Table 1202.5, Table 1210.5

F1924—12 Standard Specification for Plastic Mechanical Fittings for Use on Outside   
  Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing 1210.6.6.3

~~F1960—15~~ F1960—2018 Specification for Cold-Expansion Fittings with PEX Reinforcing Rings   
  for Use with Cross-linked Polyethylene (PEX) Tubing Table 1202.5, Table 1210.5

F1974—09(2015) Standard Specification for Metal Insert Fittings for Polyethylene/   
  Aluminum/Polyethylene and Cross-linked Polyethylene/Aluminum/  
  Cross-linked Polyethylene Composite Pressure Pipe Table 1202.5

~~F2080—15~~ F2080—16 Specification for Cold-Expansion Fittings with Metal Compression-   
  Sleeves for Cross-linked Polyethylene (PEX) Pipe Table 1210.5

~~F2098—08~~ F2098—2015 Standard Specification for Stainless Steel Clamps for SDR9 Cross-linked   
  Polyethylene (PEX) Tubing to Metal and Plastic Insert Fittings Table 1202.5

~~F2159—14~~ F2159—2018 Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp  
   Ring for SDR 9 Cross-linked Polyethylene (PEX) Tubing and SDR9   
   Polyethylene of Raised Temperature (PE-RT) Tubing Table 1210.5, Table 1202.5

~~F2389—15~~ F2389—2017A Specification for Pressure-rated Polypropylene Piping Systems Table 1210.4, 1203.15.1,

1210.6.7.1, Table 1210.5,  
Table 1202.4, Table 1202.5

F2434—14 Standard Specification for Metal Insert Fittings Utilizing a   
  Copper Crimp ring for SDR9 Cross-linked Polyethylene (PEX)   
  Tubing and SDR9 Cross-linked Polyethylene/Aluminum/  
  Cross-linked Polyethylene (PEX-AL-PEX) Tubing Table 1210.5

F2623—14 Standard Specification for Polyethylene of Raised   
  Temperature (PE-RT) SDR 9 Tubing1 Table 1202.4, Table 1210.4

~~F2735—09~~ F2735— 2009(2016) Standard Specification for Plastic Insert Fittings for SDR 9   
  Cross-linked Polyethylene (PEX) and Polyethylene of Raised   
  Temperature (PE-RT) Tubing Table 1202.5

~~F2769—14~~ F2769—2018 Polyethylene of Raised Temperature (PE-RT) Plastic Hot- and   
  Cold-water Tubing and Distribution Systems Table 1202.4, Table 1202.5

F2806—10(2015) Standard Specification for Acrylonitrile-Butadiene-Styrene   
  (ABS) Plastic Pipe (Metric SDR-PR) Table 1202.4

**Add new standard(s) as follows:**

**ASTM**

F2855—12: Standard Specification for Chlorinated Poly(Vinyl Chloride)/Aluminum/Chlorinated Poly(Vinyl Chloride) (CPVC-AL-CPVC) Composite Pressure Tubing

(M8524/M103-18 AS)

**Add new standard(s) as follows:**

**ASTM**

F3253—2017: Standard Specification for Crosslinked Polyethylene (PEX) Tubing with Oxygen Barrier for Hot - and Cold - Water Hydronic Distribution Systems

(M8526/M104-18 AS)

**ASTM**

A269-15: Standard Specification f or Seamless and Welded Austenitic Stainless Steel Tubing f or General Service

A312-17: Standard Specification f or Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes

F3226-16: Standard Specif ication f or Metallic Press-Connect Fittings f or Piping and T ubing Systems

AWS

American Welding Society

8669 NW 36 Street, #130

Doral, FL 33166

Standard Referenced  
reference in code  
~~A5.8M A5.8/A5.8M—2011~~

A5.8 2011-AMD1 Specifications for Filler Metals for Brazing and Braze Welding 1203.3.1, 1303.3.1

AWWA

American Water Work Association

6666 West Quincy Avenue

Denver, CO 80235

Standard Referenced  
reference in code  
number Title section number

C901—16 Polyethylene (PE) Pressure Pipe and   
  Tubing, 3/4 in. (19 mm) through 3 in. (76mm) for Water Service Table 1210.4

C110/A21.10—12 Standard for Ductile Iron & Gray Iron Fittings Table 1202.5

C115/A21.15—11 Standard for Flanged Ductile-Iron Pipe with Ductile Iron or Grey-Iron   
  Threaded Flanges Table 1202.4

C151/~~A21.51—09~~ A21.51— 17 ~~Standard for~~ Ductile-iron Pipe, Centrifugally Cast ~~for Water~~ Table 1202.4

C153/A21.53—11 Standard for Ductile-Iron Compact Fittings for Water Service Table 1202.5

CSA

CSA Group

8501 East Pleasant Valley Road

Cleveland, OH 44131-5516

Standard Referenced  
reference in code  
number Title section number

B137.1—13 Polyethylene (PE) Pipe, Tubing and Fittings for Cold Water   
  Pressure Services Table 1202.4, Table 1210.4, Table 1210.5

~~B137.2—16~~ B137.2—17 Polyvinylchloride (PVC) Injection-moulded Gasketed Fittings for   
  Pressure Applications Table 1210.5

~~B137.3—16~~ B137.3—17 Rigid Poly (Vinyl Chloride) (PVC) Pipe for Pressure Applications Table 1210.5

B137.5—16 Cross-linked Polyethylene (PEX) Tubing Systems for   
  Pressure Applications Table 1210.4, Table 1210.5

~~B137.6—16~~ B137.6—17 Chlorinated Polyvinylchloride (CPVC) Pipe, Tubing and Fittings for Hot- and   
  Cold-water Distribution Systems Table 1210.5

~~B137.9—16~~ B137.9—17 Polyethylene/Aluminum/Polyethylene (PE-AL-PE)   
  Composite Pressure-pipe Systems Table 1210.4, Table 1210.5, Table 1202.4

~~B137.10—16~~ B137.10—17 Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene   
  (PEX-AL-PEX) Composite Pressure-Pipe Systems Table 1202.4

ANSI CSA/IGSHPA C448 Series—16 Design and ~~Installation of Earth Energy~~installation of ground source heat pump systems for commercial and residential buildings.

CAN/CSA 2002  Systems—First Edition Table 1210.4, Table 1210.5

CSA ~~B137.1—16~~ B137.1— 17

Polyethylene (PE) Pipe, Tubing and Fittings for Cold Water   
  Pressure Services Table 1210.4, Table 1210.5

CSA ~~B137.5—16~~ B137.5— 17 Cross-linked Polyethylene (PEX) Tubing Systems for   
  Pressure Applications Table 1210.4, Table 1210.5

CSA B137.6 Cold-water Distribution Systems Table 1210.5

CSA B137.11—~~13~~17 Polypropylene (PP-R) Pipe and Fittings for Pressure Applications Table 1210.4, Table 1210.5

CSA ~~B137.18—13~~ B137.18 -17 Polyethylene of Raised Temperature Resistance (PE-RT) Tubing Systems for Pressure Applications

~~ANSI CSA   
America FC1—2012~~ ANSI/CSA FC1—2014

~~Stationary Fuel Cell Power Systems~~ Fuel cell technologies - Part 3-100: Stationary fuel cell power systems-Safety 924.1

CAN/CSA B 181.1—99 ABS Drain, Waste, and Vent Pipe and Pipe Fittings Tables 515.2A, 515.2B

CAN/CSA B 181.3—99 Polyolefin Laboratory Drainage Systems with Revisions   
  through

October 1990 Table 515.2A

CSA C22.2 No. 218.1—13(R2017) Spas, Hot Tubs and Associated Equipment 916.1

CSA C22.2 No. 236—15 Heating and Cooling Equipment 916.1

CAN/CSA C448 Series—16 Design and Installation of Earth Energy Systems Table 1210.4, Table 1210.5

UL/CSA 60335-2-40—2019 Household and Similar Electrical Appliances—Safety—Part 2-40:  
  Particular Requirements for Electrical Heat Pumps, Air-Conditioners and  
  Dehumidifiers – 3rd Edition

**Update standard(s) as follows:**

**CSA**

ANSI/CSA/IGSHPA C448 Series—16:

Design and Installation of Earth Energy Systems

(M8533/M109-18 AS)

DOL

Department of Labor

Occupational Safety and Health Administration

c/o Superintendent of Documents

US Government Printing Office

Washington, DC 20402-9325

Standard Referenced  
reference in code  
number Title section number

29 CFR Part 1910.1000 (2015) Air Contaminants 502.6

29 CFR Part 1910.1025 (2015) Toxic and Hazardous Substances 502.19

Florida Codes

Florida Building Commission

c/o Florida Department of Business and Professional Regulation

Building Codes and Standards

2601 Blair Stone Road

Tallahassee, Florida 32399

Standard Referenced  
reference in code  
number Title section number

FBC-B— Eight Edition ~~(2020~~ 2023) Florida Building Code, Building 201.3, 202, 301.7, 301.15, 301.16, 301.17, 301.18, 302.1,

302.2,

304.8, 304.11, 306.5.1, 308.4.2.2, 308.4.2.4,

401.4, 401.5, 406.1, 501.3, 501.3.2, 502.10, 502.10.1, 502.10.2, 504.2, 504.10,

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511.1.5,

513.1, 513.2, 513.3, 513.4.3, 513.5, 513.5.3,

513.6.2, 513.6.3, 513.10.5,

513.11, 513.12, 513.12.3, 516.1, 601.3, 602.2, 602.3, 602.4, 603.1,

603.7, 603.13

, 603.18.2, 607.1.2, 607.2.1, 607.3.3.1, 607.3.3.2, 607.5.1, 607.5.2,

607.5.3, 607.5.4, 607.5.5,

607.5.5.1, 607.5.6, 607.6, 607.6.2, 607.6.3, 701.2,

801.3, 801.16.1,

801.18.4, 902.1, 908.3, 908.4, 910.3, 924.1, 925.1, 926.1,

927.2, 928.1

, 1004.6, 1105.1, 1206.4, 1210.8.2, 1305.2.1, 1402.4, 1402.4.1

,

FBC-EC— Eight Edition (~~2020~~ 2023) Florida Building Code, Energy Conservation 301.2, 303.3, 312.1, 401.2,

514.1, 604.1, 1204.1, 1204.2

FBC-FG— Eight Edition (~~2020~~ 2023) Florida Building Code, Fuel Gas 201.3, 301.6, 701.1, 801.1,

901.1, 906.1, 926, 1101.5

FBC-P— Eight Edition (~~2020~~ 2023) Florida Building Code, Plumbing 201.3, 301.11, 307.2.2, 512.2, 908.5, 928, 928.1,

1002.1, 1002.2,1002.3,

1005.2, 1006.6, 1008.2, 1009.3,

1101.4,

1201.1, 1206.2, 1206.3, 1210.8.1, 1401.2

FFPC—Seventh Edition (~~2020~~ 2023) Florida Fire Prevention Code 201.3, 310.1, 311.1, 502.4, 502.5, 502.7.2, 502.8.1, 502.9.1,

502.9.5, 502.9.8, 502.9.11, 502.10, 502.10.3, 502.16.2.2, 509.1,

510.2.1, 510.2.2, 510.5, 511.1.1,

513.1, 513.2, 513.6.3,

513.12, 513.15, 513.16, 513.17, 513.18, 513.19, 606.2.1, 606.4.1, 908.7,

924, 926, 1101.9, 1105.3, 1105.9, 1106.6,

1301.1, 1301.2, 1301.5

Florida Statutes Ch. 554 Boiler Safety Act 1001.1

FS

Federal Specifications\*

General Services Administration

7th & D Streets

Specification Section, Room 6039

Washington, DC 20407

Standard Referenced  
reference in code  
number Title section number

WW-P-325B (1976) Pipe, Bends, Traps, Caps and Plugs; Lead (for Industrial Pressure   
  and Soil and Waste Applications) Table 1202.4  
 \*Standards are available from the Supt. of Documents, U.S. Government Printing Office,   
  Washington, DC 20402-9325

IIAR

International Institute of Ammonia Refrigeration

1110 North Glebe Road

Arlington, VA 22201

Standard Referenced  
reference in code  
number Title section number

|  |
| --- |
| ANSI/IIAR 2—2014 , |
| Addendum A |

Safe Design of Closed-circuit Ammonia Refrigeration Systems 1101.6, 1105.6.3

ANSI/IIAR ~~3—2012~~ 3—2017 Ammonia Refrigeration Valves

ANSI/IIAR ~~5—2013~~ 5—2019 Start-up ~~and Commissioning~~ of Closed-circuit Ammonia Refrigeration Systems

MSS

Manufacturers Standardization Society of the Valve & Fittings Industry, Inc.

127 Park Street, N.E.

Vienna, VA 22180

Standard Referenced  
reference in code  
number Title section number

~~SP 58—2009~~ 58—2018 Pipe Hangers and Supports—Materials Design and Manufacture,   
  Selection, Application and Installation 305.4

NAIMA

North American Insulation Manufacturers Association

44 Canal Center Plaza, Suite 310

Alexandria, VA 22314

Standard Referenced  
reference in code  
number Title section number

AH116—09 Fibrous Glass Duct Construction Standards 603.5, 603.9

NBBI

National Board of Boiler and Pressure Vessel Inspectors

1055 Crupper Avenue

Columbus, OH 43229-1183

Standard Referenced  
reference in code  
number Title section number

~~NBIC—2011~~ NBIC—2017 National Board Inspection Code, Part 3 1003.3

NFPA

National Fire Protection Association

1 Batterymarch Park

Quincy, MA 02169-7471

Standard Referenced  
reference in code  
number Title section number

~~2—16~~ 2—19

Hydrogen Technologies Code 502.16.1

~~30A—18~~ 30A—21 Code for Motor Fuel-dispensing Facilities and Repair Garages 304.6

~~31—16~~ 31—20 Standard for the Installation of Oil-burning Equipment 701.1, 801.2.1, 801.18.1,

801.18.2, 920.2, 922.1, 1308.1

37—18 Standard for the Installation and Use of Stationary   
  Combustion Engines and Gas Turbines 915.1, 915.2

56—17 56—20 Standard for Fire and Explosion Prevention during Cleaning and Purging of Flammable Gas Piping Systems

~~58—17~~ 58—20 Liquefied Petroleum Gas Code 502.9.10

~~69—14~~ 69—19 Standard on Explosion Prevention Systems 510.9.3

70—20~~17~~ 20 National Electrical Code 301.10, 306.3.1, 306.4.1, 306.5.2, 511.1.1,

513.12.2, 602.2.1.1, 927.2, 1104.2.2, 1106.3, 1106.4

~~72—16~~ 72—19 National Fire Alarm and Signaling Code 606.3

80—16 Standard for Fire Doors and Other Opening Protectives 607.4.1.2

~~82—14~~ 82—19 Standard on Incinerators and Waste and Linen Handling Systems and Equipment 601.1

~~85—15~~ 85—19 Boiler and Combustion Systems Hazards Code 1004.1

90A—15 Standard for the Installation of Air-Conditioning and Ventilating Systems 606.2.1

~~91—15~~ 91—20~~Standard for~~ Exhaust Systems for Air Conveying of Vapors, Gases, Mists and

Noncombustible Particulate Solids 502.9.5.1, 502.17

~~92—15~~ 92—18 Standard for Smoke Control Systems 513.7, 513.8

~~96—17~~ 96—20 Standard for Ventilation Control and Fire Protection of Commercial   
  Cooking Operations 507.1

105—16 Standard for Smoke Door Assemblies and Other Opening Protectives 607.4.1.2

~~211—16~~ 211—19 Standard for Chimneys, Fireplaces, Vents and Solid Fuel-burning Appliances 806.1

~~262—15~~ 262—19 Standard Method of Test for Flame Travel and Smoke of Wires   
   and Cables for Use in Air-handling Spaces 602.2.1.1

~~286—15~~ 286—19 Standard Methods of Fire Tests for Evaluating Contribution   
  of Wall and Ceiling Interior Finish to Room Fire Growth 602.2.1.6

704—17 Standard System for Identification of the Hazards of   
  Materials for Emergency Response 502.8.4, Table 1103.1, 510.1

~~853—15~~ 853—20 Standard on Installation of Stationary Fuel Cell Power ~~Plants~~ Systems 924.1

NSF

NSF International

789 Dixboro Road, P. O. Box 130140

Ann Arbor, MI 48113-0140

Standard Referenced  
reference in code  
number Title section number

NSF ~~358-1—2014~~ 358-1— 2017 Plastic Piping System Components and Related Materials 301.4

NSF ~~358-2—2012~~ 358-2— 2017 Polyethylene Pipe and Fittings for Water Based Ground Source   
  “Geothermal” Heat Pump Systems Table 1210.4, Table 1210.5

**Add new standard(s) as follows:**

**NSF**

NSF 358-4-2017: Polyethylene of raised temperature (PE-RT) pipe and fittings for water-based ground-source (geothermal) heat pump systems

(M8537/M112-18 AS)/(M8538/M1113-18 AS)

SMACNA

Sheet Metal & Air-Conditioning Contractors National Assoc., Inc.

4201 Lafayette Center Drive

Chantilly, VA 20151-1209

Standard Referenced  
reference in code  
number Title section number

SMACNA/ANSI—2016 HVAC Duct Construction Standards-Metal and   
  Flexible 4th Edition (ANSI) ~~2016~~ 504.10, 505.3, 510.9.1,

603.4, Table 603.4, 603.9, 603.10

SMACNA—10 Fibrous Glass Duct Construction Standards 7th Edition 603.5, 603.9

ANSI/SMACNA 022—2015 SMACNA Phenolic Duct Construction Standard 1st Edition ANSI 603.5.2

ANSI/SMACNA-~~1999~~ 2013 Standard Specification for Composite Steel Joists, CJ-Series

ANSI/SMACNA-~~2004~~ 2011 Rectangular Industrial Duct Construction Standards

UL

UL LLC

333 Pfingsten Road

Northbrook, IL 60062-2096

Standard Referenced  
reference in code  
number Title section number

17—2008 Vent or Chimney Connector Dampers for Oil-fired Appliances—  
  with Revisions through September 2013 803.6

103—2010 Factory-built Chimneys, Residential Type and Building Heating ~~Appliance—with~~ Appliances—with revisions through ~~July 2012~~ March 2017 805.2

127—2011 Factory-built Fireplaces—with Revisions through ~~May 2015~~ July 2016 805.7, 903.1, 903.3, 903.4

174—04 Household Electric Storage Tank Water Heaters—with revisions through ~~April 2015~~ December 2016 1002.1

180—2012 Liquid-level Indicating Gauges for Oil Burner Fuels and Other Combustible ~~Liquids~~ Liquids-with revisions through May 2017 1306.4

181—05 Factory-made Air Ducts and Air Connectors—with revisions through ~~October 2008~~ April 2017 512.2, 603.5, 603.6.1,603.6.2, 603.9, 604.13

181A—2013 Closure Systems for Use with Rigid Air Ducts and Air Connectors - with revisions through March 2017 603.9

181B—~~2013~~2017 Closure Systems for Use with Flexible Air Ducts and Air Connectors - with revisions through March 2 603.9

197—10 Commercial Electric Cooking Appliances—with revisions through ~~September 2014~~ January 2018 917.1

207—2009 Refrigerant-containing Components and Accessories, Nonelectrical—  
  with Revisions through June 2014 1101.2

263—2011 ~~Standard for~~ Fire Test of Building Construction and Materials—with revisions through ~~June 2015~~ March 2018 607.3.1, 607.5.2, 607.5.5, 607.6.1, 607.6.2.1

~~268—2009~~ 268—2016

Smoke Detectors for Fire Alarm ~~Systems~~ Systems-with revisions through July 2016 606.1

268A—2008 Smoke Detectors for Duct Application—with revisions through ~~October 2014~~ August 2016

606.1

~~343—2008~~ 343—2017 Pumps for Oil-burning ~~Appliances—with revisions through June 2013~~ Appliances 1302.7

~~378—06~~ 378—2006 Draft Equipment—with revisions through ~~June 12, 2014~~ September 2013

804.3, 804.3.8

391—2010 Solid-fuel and Combination-fuel Central and Supplementary Furnaces—  
  with Revisions through June 2014 918.1

412—2011 Refrigeration Unit Coolers—with revisions through ~~September 2013~~ August 2018 1101.2

471—2010 Commercial Refrigerators and Freezers—with revisions through ~~December 2012~~ November 2018 1101.2

~~499—05~~ 499—20 Standard for Electrical Heating Appliances—with revisions through ~~November 2014~~ February 2017 912.1, 923.1

~~507—2014~~ 507—2017 ~~Standard for Electric Fans~~ Electric Fans-with revisions through August 2018

929

~~508—99~~ 508—2018 Industrial Control ~~Equipment—with revisions through October 2013~~ Equipment 307.2.3

~~536—97~~ 536—2014 Flexible Metallic ~~Hose—with revisions through December 2014~~ Hose 1302.8

555—06 Fire Dampers—with revisions through ~~May 2014~~ October 2016 607.3.1

~~555C—06~~ 555C—2014 Ceiling Dampers—with Revisions through ~~December 2014~~ May 2017 607.3.1

~~555S—99~~ 555S—2014 Smoke Dampers—with Revisions through ~~February 2014~~ October 2016 607.3.1

586—2009 High-Efficiency, Particulate, Air Filter Units—  
  with Revisions through ~~September 2014~~ December 2017 605.2

UL—continued

641—2010 Type L Low-temperature Venting Systems—with Revisions through ~~June 2013~~ April 2018 802.1

~~705—2004~~ 705—2017 ~~Standard for~~ Power Ventilators—with revisions through ~~December 2013~~ October 2018 504.5

710—2012 Exhaust Hoods for Commercial Cooking Equipment—with revisions through ~~November~~ ~~2013~~ June 2018 507.1, 507.2.6

710B—2011 Recirculating Systems—with Revisions through August 2014 507.2

~~723—2008~~ 723—2018 ~~Standard for Test for~~ Surface Burning Characteristics of Building ~~Materials—with~~ ~~revisions through August 2013~~ Materials

202, 510.9, 602.2, 602.2.1, 602.2.1.6,

602.2.1.6.3, 602.2.1.7, 602.2.1.8, 604.3, 1204.1

726—95 Oil-fired Boiler Assemblies—with Revisions through October 2013 916.1, 1004.1

~~727—06~~ 727—2018 Oil-fired Central ~~Furnace—with revisions through October 2013~~ Furnace 918.1

~~729—03~~ 729—2003 Oil-fired Floor Furnaces—with revisions through ~~October 2013~~ November 2016 910.1

~~730—03~~ 730—2003 Oil-fired Wall Furnaces—with revisions through ~~October 2013~~ November 2016 909.1

~~731—95~~ 731—2018 Oil-fired Unit ~~Heaters—with revisions through October 2013~~ Heaters 920.1

~~732—95~~ 732—2018 Oil-fired Storage Tank Water ~~Heaters—with revisions through October 2013~~ Heaters 1002.1

737—2011 Fireplace ~~Stoves—with revisions through August 2015~~ Stoves 905.1

~~762—2010~~ 762—2013 Outline of Investigation for Power Ventilators for Restaurant Exhaust ~~Appliances—with~~ ~~revisions through October 2013~~ Appliances 506.5.1, 506.5.2

~~791—06~~ 791—2006 Residential Incinerators—with Revisions through November 2014 907.1

~~834—04~~ 834—2004 Heating, Water Supply and Power Boilers Electric—with revisions through ~~December~~ ~~2013~~ September 2018 1004.1

~~842—07~~ 842—2015 Valves for Flammable Fluids—with Revisions through May 2015 1307.1

~~858—05~~ 858—2014 Household Electric Ranges—with revisions through June ~~2015~~ 2018 917.1

867—2011 Electrostatic Air Cleaners—with revisions through August ~~2013~~ 2018 605.2

~~875—09~~ 875—2009 Electric Dry Bath Heater—with revisions through ~~December 2013~~ September 201713 914.2

~~896—93~~ 896—1993 Oil-burning Stoves—with revisions through November ~~2013~~ 2016 917.1, 922.1

~~900—04~~ 900—2015 Air Filter ~~Units—with revisions through April 2015~~ Units 605.2

~~907—94~~ 907—2016 Fireplace ~~Accessories—with revisions through June 2014~~ Accessories 902.2

923—2013 Microwave Cooking Appliances—with revisions through ~~June 2015~~ July 2017 917.1

959—2010 Medium Heat Appliance Factory-built Chimneys—with Revisions through June 2014 805.5

1046—2010 Grease Filters for Exhaust Ducts—with revisions through ~~January 2012~~ April 2017 507.2.8

~~1240—2012~~ 1240—2005 Electric Commercial Clothes—Drying Equipment—with revisions through ~~October 2012~~ March 2018

913.1

1261—~~01~~2016 Electric Water Heaters for Pools and Tubs—with revisions through ~~July 2012~~ September 2017 916.1

~~1453—04~~ 1453—2016 Electric Booster and Commercial Storage Tank Water Heaters—with revisions through ~~July 2011~~ May 2018

1002.1

~~1479—03~~ 1479—2015 Fire Tests of Penetration ~~Firestops—with Revisions through June 2015~~ Firestops 506.3.11.2, 506.3.11.3

1482—2011 Solid-fuel Type Room Heaters—with Revisions through August 2015 905.1

1563—2009 ~~Standard for~~ Electric Hot Tubs, SpasElectric Spas Equipment Assemblies, and Associated Equipment—with revisions through ~~March 2015~~ October 2017 916.1

~~1618—09~~ 1618—2015 Wall Protectors, Floor Protectors and Hearth Extensions—  
  with Revisions through ~~October 2015~~ January 2018 308.4.1, 903.2, 905.3

1777—2007 Chimney Liners—with Revisions through ~~October 2015~~ April 2014 801.16.1, 801.18.4

1812—2013 ~~Standard for~~ Ducted Heat Recovery Ventilators—with Revisions through ~~April 2014~~ July 2018

514.1

1815—2012 ~~Standard for~~ Nonducted Heat Recovery—with revisions through ~~April 2014~~ July 2018 514.1

~~1820—04~~ 1820—2004 Fire Test of Pneumatic Tubing for Flame and Smoke Characteristics—with revisions through ~~May 2013~~ July 2017

602.2.1.3

~~1887—04~~ 1887—2004 Fire Tests of Plastic Sprinkler Pipe for Visible Flame and Smoke Characteristics—with revisions through ~~May 2013~~ July 2017 602.2.1.2

1978—2010 Grease Ducts—with revisions through ~~September 2013~~ April 2017 506.3.1.1, 506.3.2, 506.3.6, 506.5.2

~~1995—2011~~ 1995—2015 Heating and Cooling Equipment—with revisions through ~~July 2015~~ August 2018 908.1, 911.1, 918.1, 918.2, 1101.2

1996—2009 Electric Duct Heaters—with revisions through ~~June 2014~~ July 2016 911.1

~~2024—2011~~ 2024—2014 ~~Standard for~~ Safety Optical-Fiber and Communications Cable Raceway—  
  with Revisions through August 2015 602.2.1.1

~~2043—2008~~ 2043—2013 Accessories Installed in Air-handling Spaces—with revisions through ~~October 2013~~ July 2018

602.2.1.4.2, 602.2.1.5

2075—2013 ~~Standard for~~ Gas and Vapor Detectors and ~~Sensors~~ Sensors-with revisions through December 2017 404.1

UL—continued

~~2158—97~~ 2158—2018 Electric Clothes Dryers~~—with Revisions through March 2009~~ 913.1

504.8.3

~~2162—01~~ 2162—2014 Outline of Investigation for Commercial Wood-fired Baking Ovens-Refractory Type 917.1

2200—2012 Stationary Engine Generator Assemblies—with revisions through ~~July~~ October 2015 915.1

2221—2010 Tests of Fire Resistive Grease Duct Enclosure Assemblies 506.3.11.3

~~2518—05~~ 2518—2016 Air Dispersion ~~System Materials~~ Systems 603.17

~~2523—09~~ 2523—2009 Solid Fuel-fired Hydronic Heating ~~Appliances—with~~ Appliances, Water Heaters, and Boilers-with revisions through ~~February 2013~~ March 2018

1002.1, 1004.1

~~2846—14~~ 2846—2014 Fire Test of Plastic Water Distribution Plumbing Pipe for Visible Flame and Smoke ~~Characteristics~~ Characteristics-with revisions through December 2016

602.2.1.7

UL/CSA 60335-2-40—2019 Household and Similar Electrical Appliances—Safety—Part 2-40:  
  Particular Requirements for Electrical Heat Pumps, Air-Conditioners and  
  Dehumidifiers – 3rd Edition

**(ADM47-19)**

Add new standard(s) as follows:

**UL**

8782-17: Outline of Investigation for Pollution Control Units for Commercial Cooking

(M8485/M52-18 AS)

Add new standard(s) as follows:

**UL**

UL1370-11: Unvented Alcohol Fuel Burning Decorative Appliances, with revisions through March 25, 2016

(M8513/M85-18 AS)

Add new standard(s) as follows:

**UL**

UL/CSA 60335-2-40 -19: Household and Similar Electrical Appliances – Safety – Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers.

UL 60335-2-89-17: Household and Similar Electrical Appliances - Safety - Part 2-89: Particular Requirements for Commercial Refrigerating Appliances with an Incorporated or Remote Refrigerant Unit or Compressor

(M8514/M86-18 Part I AS)

**UL**

~~536-97: Flexible Metallic Hose-with revisions through December 2014~~

(M8549/M121-18 AM)