CHAPTER 11

REFERENCED STANDARDS

User note:

About this chapter: This code contains numerous references to standards promulgated by other organizations that are used to provide requirements for materials and methods of construction. Chapter 11 contains a comprehensive list of all standards that are referenced in this code. These standards, in essence, are part of this code to the extent of the reference to the standard.

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 102.7.

AHRI

Air Conditioning, Heating & Refrigeration Institute 2311 Wilson Boulevard, Suite 400 Arlington, VA 22201

400 (I-P)—2015: Performance Rating of Liquid to Liquid Heat Exchangers

Table 316.2(1)

1160 (I-P)—2014: Performance Rating of Heat Pump Pool Heaters—(with Addendum 1)

Table 316.2(1)

ANSI

American National Standards Institute 25 West 43rd Street, 4th Floor New York, NY 10036

A108/A118/A136.1—2019: Specifications for Installation of Ceramic Tile

Table 307.2.2

Z21.56a/CSA 4.7—2017: Gas Fired Pool Heaters

Table 316.2(1)

APSP

Pool & Hot Tub Alliance (formerly The Association of Pool & Spa Professionals) 2111 Eisenhower Avenue, Suite 500

Alexandria, VA 22314

ANSI/APSP/ICC 4—2012: American National Standard for Aboveground/Onground Residential Swimming Pools—Includes Addenda A Approved April 4, 2013

702.2.1

ANSI/PHTA/ICC 7—2020: American National Standard for Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs, and Catch Basins

310.1

ANSI/APSP/ICC 14—2019: American National Standard for Portable Electric Spa Energy Efficiency

303.2

ANSI/APSP/ICC 15—2011: American National Standard for Residential Swimming Pool and Spa Energy Efficiency Includes Addenda A Approved January 9, 2013

303.3

ANSI/APSP/ICC 16—2017: American National Standard for Suction Outlet Fitting (SOFA) for Use in Pools, Spas, and Hot Tubs 202, 311.4.1, 311.4.4, 505.2.1, 612.4.2

ANSI/APSP/ICC/NPC 12—2016: American National Standard for the Plastering of Swimming Pools and Spas 307.2.5

ASCE/SEI

American Society of Civil Engineers Structural Engineering Institute 1801 Alexander Bell Drive Reston, VA 20191-4400

ASCE 24—14: Flood Resistant Design & Construction

304.3

ASHRAE

ASHRAE 1791 Tullie Circle NE Atlanta, GA 30329

62.1—2019: Ventilation for Acceptable Air Quality

325.1

ASME

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

A112.1.2—2012(R2022): Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-connected Receptors)

318.2

B16.15—2013: Cast Alloy Threaded Fittings: Classes 125 and 250

Table 311.4.1

ASTM

ASTM International 100 Barr Harbor, P.O. Box C700 West Conshohocken, PA 19428-2959

A182/A182M—2018A: Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-temperature Service

Table 311.4.1

A240/A240M—17: Standard Specification for Chromium and Chromium-nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications

Table 307.2.2

A312/A312M—2018: Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes
Table 311.4

A403/A403M—2018A: Standard Specification for Wrought Austenitic Stainless Steel Piping Fittings
Table 311.4.1

B88—2016: Standard Specification for Seamless Copper Water Tube

Table 311.4

B447—12a: Specification for Welded Copper Tube

Table 311.4

D1527—99(2005): Specifications for Acrylonitrile Butadiene Styrene (ABS) Plastic Pipe, Schedules 40 and 80 Table 311.4, Table 311.4.1

D1593—13: Standard Specification for Nonrigid Vinyl Chloride Plastic Film and Sheeting

Table 307.2.2

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

Table 311.4

D2241—15: Standard Specification for Poly (Vinyl Chloride) (PVC) Pressure-rated Pipe (SDR Series)

Table 311.4

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

Table 311.4.1

D2466—2017: Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40

Table 311.4.1

D2467—15: Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80

Table 311.4.1

ASTM—continued

D2672—14: Standard Specification for Joints for IPS PVC Pipe Using Solvent Cement

Table 311.4

D2846/D2846M—2017BE1: Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems

Table 311.4, Table 311.4.1

F437—15: Standard Specification for Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80 Table 311.4.1

F438—2017: Standard Specification for Socket-type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40
Table 311.4.1

F439—13: Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80 Table 311.4.1

F1346—1991(2018): Standard Performance Specification for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs

305.1, 305.4

CPSC

Consumer Product Safety Commission 4330 East-West Highway Bethesda, MD 20814

16 CFR Part 1207—04: Safety Standard for Swimming Pool Slides

406.10

CSA

CSA Group 8501 East Pleasant Valley Road Cleveland, OH 44131-5516

B137.2—17: Polyvinylchloride (PVC) Injection-moulded Gasketed Fittings for Pressure Application

Table 311.4, Table 311.4.1

B137.3—17: Rigid Polyvinylchloride (PVC) Pipe and Fitting and Pressure Applications

Table 311.4, Table 311.4.1

B137.6—17: Chlorinated Polyvinylchloride (CPVC) Pipe, Tubing, and Fitting for Hot- and Cold-water Distribution Systems

Table 311.4, Table 311.4.1

C22.2 No. 108—14: Liquid Pumps

313.8

C22.2 No. 218.1—13 (2017): Spas, Hot Tubs and Associated Equipment

302.3, 309.1, 310.1, 313.8, Table 316.2(1), 317.2, 509.1, 1001.4, 1001.7

C22.2 No. 236—15: Heating and Cooling Equipment

Table 316.2(1)

Z21.56a/CSA 4.7—2017: Gas Fired Pool Heaters

Table 316.2(1)

IAPMO

IAPMO 4755 E. Philadelphia Street Ontario, CA 91761-USA

IAPMO Z124.7—2013: Prefabricated Plastic Spa Shells

TABLE 307.2.2

ICC

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

IBC—21: International Building Code®

201.3, 304.2, 306.1, 307.2, 410.1

ICC-continued

ICC 901/SRCC 100-2020: Solar Thermal Collector Standard

316.6.2

ICC 902/APSP/SRCC 400—2020: Solar Pool and Spa Heating System Standard

Table 316.2(2)

ICC A117.1—2017: Accessible and Usable Buildings and Facilities

307.1.4

IECC—21: International Energy Conservation Code®

201.3, 316.4

IFC—21: International Fire Code®

201.3

IFGC—21: International Fuel Gas Code®

201.3, 316.4

IMC—21: International Mechanical Code®

201.3, 316.4

IPC—21: International Plumbing Code®

201.3, 302.2, 302.5, 302.6, 306.8, 318.2, 410.1

IRC—21: International Residential Code®

102.7.1, 201.3, 302.1, 302.5, 302.6, 304.2, 306.1, 306.3, 306.8, 307.2, 316.4, 318.2, 321.2.1, 321.4, 703.1, 802.1, 802.2

NEMA

National Electrical Manufacturers Association 1300 North 17th Street Suite 900 Rosslyn, VA 22209

NEMA Z535—2017: ANSI/NEMA Color Chart

409.3

NFPA

National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7471

NFPA 70—2020: National Electrical Code

302.1, 316.4, 321.2.1, 321.4

NSF

NSF International 789 N. Dixboro Road P.O. Box 130140 Ann Arbor, MI 48105

NSF 14—2017: Plastics Pumping Systems Components and Related Materials

302.3, 311.4

NSF 50—2017: Equipment for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities

302.3, 309.2, Table 316.2(1), 508.1, 612.5.4

UL

UL LLC 333 Pfingsten Road Northbrook, IL 60062

372—2007: Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Burner Ignition Systems and Components—with revisions through July 2012

506.2.1, 506.2.2

873—2007: Temperature-indicating and Regulating Equipment—with revisions through February 2015

506.2.1, 506.2.2

1004-1—12: Rotating Electrical Machines General Requirements—with August 2018

313.8

UL—continued

- 1081—2016: Swimming Pool Pumps, Filters and Chlorinators—with revisions through October 2017 313.8
- 1261—2016: Standard for Electric Water Heaters for Pools and Tubs—with revisions through September 2017
 Table 316.2(1)
- 1563—2009: Electric Spas Equipment Assemblies and Associated Equipment—with revisions through October 2017 302.3, 309.1, 310.1, 313.8, Table 316.2(1), 317.2, 509.1, 1001.4, 1001.7
- 1995—2015: Heating and Cooling Equipment—with revisions through August 2018
 Table 316.2(1)
- 2017—2008: General-purpose Signaling Devices and Systems—with revisions through January 2018 305.4
- 60335-2-100: Standard for Household and Similar Electrical Appliances: Particular Requirements f or Electrically Powered Pool Lifts, with revisions through September 29, 2017

 307.1.4
- UL/CSA 60335-2-40-17: Standard for Safety for Household and Similar Electrical Appliances Safety Part 2-40: Particular Requirements f or Electrical Heat Pumps, Air-Conditioners and Dehumidifiers

 Table 316.2(1)