

## CHAPTER 11

# 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 102.7.

| <b>AHRI</b>               | Air Conditioning, Heating and Refrigeration Institute<br>2111 Wilson Boulevard, Suite 500<br>Arlington, VA 22201 |                                   |
|---------------------------|--|-----------------------------------|
| Standard reference number | Title  | Referenced in code section number |
| 1160(I-P)—09              | Performance Rating of Heat Pump Pool Heaters . . . . .   | Table 316.2                       |

| <b>ANSI</b>               | American National Standards Institute<br>25 West 43rd Street, Fourth Floor<br>New York, NY 10036 |                                   |
|---------------------------|--|-----------------------------------|
| Standard reference number | Title  | Referenced in code section number |
| A108/A118/A136.1—2009     | Specifications for Installation of Ceramic Tile . . . . .  | Table 307.4                       |
| Z21.56a/CSA 4.7—2013      | Gas Fired Pool Heaters. . . . .  | Table 316.2                       |

| <b>APSP</b>                | The Association of Pool & Spa Professionals<br>2111 Eisenhower Avenue<br>Alexandria, VA 22314   |                                   |
|----------------------------|---|-----------------------------------|
| Standard reference number  | Title   | Referenced in code section number |
| ANSI/APSP/ICC 4—12         | Standard for Aboveground/Onground Residential Swimming Pools . . . . .  | 702.2.1                           |
| ANSI/APSP/ICC 7—13         | American National Standard for Suction Entrapment Avoidance in Swimming Pools,<br>Wading Pools, Spas, Hot Tubs, and Catch Basins. . . . . | 310.1                             |
| ANSI/APSP/ICC 14—11        | American National Standard for Portable Electric Spa Energy Efficiency . . . . .  | 303.2                             |
| ANSI/APSP/<br>ICC 15a—2013 | American National Standard for Residential Swimming Pool and Spa Energy Efficiency . . . . .  | 303.3                             |
| ANSI/APSP/ICC 16—11        | American National Standard for Suction Fittings for Use in Swimming Pools,<br>Wading Pools, Spas, and Hot Tubs . . . . .                  | 202, 311.4.1, 311.4.4, 505.2.1    |

| <b>ASCE/SEI</b>           | American Society of Civil Engineers<br>Structural Engineering Institute<br>1801 Alexander Bell Drive<br>Reston, VA 20191-4400 |                                   |
|---------------------------|---|-----------------------------------|
| Standard reference number | Title   | Referenced in code section number |
| ASCE 24—13                | Flood Resistant Design & Construction. . . . .  | 304.3                             |

**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 |
|---------------------------|--|-----------------------------------|
| A 112.1.2—2004            | Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors) . . . . . | 318.2                             |
| ASME B16.15—2011          | Cast Bronze Threaded Fittings . . . . .  | Table 311.4.1                     |

**ASTM**

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

| Standard reference number | Title  | Referenced in code section number |
|---------------------------|--|-----------------------------------|
| A 182—13                  | 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                     |
| A 240—13a                 | Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications . . . . .       | Table 307.4                       |
| A 312—13a                 | Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes . . . . .  | Table 311.4                       |
| A 403—13                  | Standard Specification for Wrought Austenitic Stainless Steel Piping Fittings . . . . .  | Table 311.4.1                     |
| B 88—09                   | Standard Specification for Seamless Copper Water Tube . . . . .  | Table 311.4                       |
| B 447—12a                 | Specification for Welded Copper Tube . . . . .   | Table 311.4                       |
| D 1527—99(2005)           | Specifications for Acrylonitrile Butadiene Styrene (ABS) Plastic Pipe, Schedules 40 and 80 . . . . .   | Table 311.4, Table 311.4.1        |
| D 1593—09                 | Non-rigid vinyl chloride plastic film and sheeting . . . . .   | Table 307.4                       |
| D 1785—12                 | Specification for Poly Vinyl Chloride (PVC) Plastic Pipe, Schedules 40, 80 and 120 . . . . .   | Table 311.4                       |
| D 2241—09                 | Standard Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series) . . . . .   |                                   |
| D 2464—06                 | Standard Specification for Threaded Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80 . . . . .  | Table 311.4.1                     |
| D 2466—06                 | Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40 . . . . .   | Table 311.4.1                     |
| D 2467—06                 | Standard Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80 . . . . .   | Table 313.4.1                     |
| D 2672—96a(2009)          | Standard Specification for Joints for IPS PVC Pipe Using Solvent Cement . . . . .  | Table 311.4                       |
| D 2846/D2846M—09be1       | Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems . . . . .                                    | Table 311.4, Table 311.4.1        |
| F 437—09                  | Standard Specification for Threaded Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80 . . . . .   | Table 311.4.1                     |
| F 438—09                  | Standard Specification for Socket-Type Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40 . . . . .                                      | Table 311.4.1                     |
| F 439—12                  | Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80 . . . . .   | Table 311.4.1                     |
| F 1346—91(2010)           | 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 30814-4408

| Standard reference number | Title  | Referenced in code section number |
|---------------------------|--|-----------------------------------|
| 16 CFR Part 1207—04       | Safety Standard for Swimming Pool Slides . . . . . | 406.10                            |

# CSA

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

| Standard reference number   | Title   | Referenced in code section number                                     |
|-----------------------------|---|---|
| B137.2—13                   | Polyvinylchloride (PVC) Injection-Moulded Gasketed Fittings for Pressure Application . . . . .                        | Table 311.4, Table 311.4.1  |
| B137.3—13                   | Rigid Polyvinylchloride (PVC) Pipe and Fitting and Pressure Applications . . . . .                                    | Table 311.4, Table 311.4.1  |
| B137.6—13                   | 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—01 (R2010)    | Liquid Pump . . . . .   | 313.8   |
| C22.2 No. 218.1—M89 (R2011) | Spas, Hot Tubs and Associated Equipment . . . . .   | 302.3, 309.1, 310.1, 313.8, Table 316.2, 317.2, 509.1, 1001.4, 1001.7 |
| C22.2 No. 236—11            | Cooling Equipment . . . . .   | Table 316.2   |
| Z21.56a/CSA 4.7—2013        | Gas Fired Pool Heaters . . . . .  | Table 316.2   |

# IAPMO

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

| Standard reference number | Title                                      | Referenced in code section number |
|---------------------------|--|-----------------------------------|
| IAPMO Z124.7—2012         | Prefabricated Plastic Spa Shells . . . . . | Table 307.4                       |

# ICC

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

| Standard reference number | Title   | Referenced in code section number   |
|---------------------------|---|---|
| IBC—15                    | International Building Code® . . . . .            | 201.3, 304.2, 306.1, 307.2, 307.4, 307.8, 307.9, 410.1  |
| IECC—15                   | International Energy Conservation Code® . . . . . | 201.3, 316.4  |
| IFC—15                    | International Fire Code® . . . . .                | 201.3   |
| IFGC—15                   | International Fuel Gas Code® . . . . .            | 201.3, 316.4  |
| IMC—15                    | International Mechanical Code® . . . . .          | 201.3, 316.4  |
| IPC—15                    | International Plumbing Code® . . . . .            | 201.3, 302.2, 302.5, 302.6, 306.8, 306.8.1, 318.2, 410.1  |
| IRC—15                    | International Residential Code® . . . . .         | 102.7.1, 201.3, 302.1, 302.5, 302.6, 304.2, 306.1, 306.3, 306.8, 306.8.1, 307.2, 307.4, 307.8, 307.9, 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 1752  
Rosslyn, VA 2209

| Standard reference number | Title                           | Referenced in code section number |
|---------------------------|---------------------------------|-----------------------------------|
| NEMA Z535—2006            | ANSI/NEMA Color Chart . . . . . | 409.3                             |

**REFERENCED STANDARDS**

**NFPA**

National Fire Protection Association  
1 Batterymarch Park  
Quincy, MA 02269

| Standard reference number | Title                              | Referenced in code section number |
|---------------------------|------------------------------------|-----------------------------------|
| NFPA 70—2014              | National Electrical Code . . . . . | 302.1, 316.4, 321.2.1, 321.4      |

**NSF**

NSF International  
789 Dixboro Road  
Ann Arbor, MI 48105

| Standard reference number | Title  | Referenced in code section number |
|---------------------------|--|-----------------------------------|
| NSF 14—2011               | Plastics Pumping Systems Components and Related Materials . . . . .                                | 302.3, 311.4                      |
| NSF 50—2012               | Equipment for Swimming Pools, Spas, Hot Tubs, and other<br>Recreational Water Facilities . . . . . | 302.3, 309.2, Table 316.2, 508.1  |

**UL**

UL LLC  
333 Pfingsten Road  
Northbrook, IL 60062

| Standard reference number | Title   | Referenced in code section number                                     |
|---------------------------|---|---|
| 372—2007                  | Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Burner Ignition Systems and Components—<br>with revisions through July 25, 2012 . . . . . | 506.2.1, 506.2.2  |
| 873—2007                  | Temperature-Indicating and Regulating Equipment—<br>with revisions through July 25, 2012 . . . . .  | 506.2.1, 506.2.2  |
| 1004-1—12                 | Standard for Rotating Electrical Machines General Requirements—<br>with revisions through June 23, 2011 . . . . .   | 313.8   |
| 1081—2008                 | Standard for Swimming Pool Pumps, Filters and Chlorinators—<br>with revisions through May 2013 . . . . .  | 313.8   |
| 1261—2001                 | Standard for Electric Water Heaters for Pools and Tubs—<br>with revisions through July 2012 . . . . .   | Table 316.2   |
| 1563—2009                 | Standard for Electric Hot Tubs, Spas and Associated Equipment—<br>with revisions through July 2012 . . . . .  | 302.3, 309.1, 310.1, 313.8, Table 316.2, 317.2, 509.1, 1001.4, 1001.7 |
| 1995—2011                 | Heating and Cooling Equipment. . . . .  | Table 316.2   |
| 2017—2008                 | General-Purpose Signaling Devices and Systems—with revisions through May 2011 . . . . .   | 305.4   |