

## Part IX—Referenced Standards

### CHAPTER 44 REFERENCED STANDARDS

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**User note:**

***About this chapter:** The one- and two-family dwelling code contains numerous references to standards promulgated by other organizations that are used to provide requirements for materials, products and methods of construction. Chapter 44 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 R102.4.*

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#### AAMA

American Architectural Manufacturers Association  
1827 Walden Office Square, Suite 550  
Schaumburg, IL 60173

- AAMA/WDMA/CSA 101/I.S.2/A440—17: North American Fenestration Standards/Specifications for Windows, Doors and Skylights**  
R308.6.9, R609.3, N1102.4.3
- 450—10: Voluntary Performance Rating Method for Muller Fenestration Assemblies**  
R609.8
- 506—16: Voluntary Specifications for Hurricane Impact and Cycle Testing of Fenestration Products**  
R609.6.1
- 711—16: Voluntary Specification for Self-adhering Flashing Used for Installation of Exterior Wall Fenestration Products**  
R703.4
- 712—14: Voluntary Specification for Mechanically Attached Flexible Flashing**  
R703.4
- 714—15: Voluntary Specification for Liquid Applied Flashing Used to Create a Water-resistive Seal around Exterior Wall Openings in Buildings**  
R703.4
- AAMA/NPEA/NSA 2100—12: Specifications for Sunrooms**  
R301.2.1.1.1

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#### ACCA

Air Conditioning Contractors of America  
2800 Shirlington Road, Suite 300  
Arlington, VA 22206

- Manual D—2016: Residential Duct Systems**  
Table R301.2(1), M1601.1, M1602.2
- Manual J—2016: Residential Load Calculation—Eighth Edition**  
N1103.7, M1401.3
- Manual S—2014: Residential Equipment Selection**  
N1103.7, M1401.3

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#### ACI

American Concrete Institute  
38800 Country Club Drive  
Farmington Hills, MI 48331

- 318—14: Building Code Requirements for Structural Concrete**  
R301.2.2.2.5, R402.2, Table R404.1.2(2), Table R404.1.2(5), Table R404.1.2(6), Table R404.1.2(7),  
Table R404.1.2(8), R404.1.3, R404.1.3.1, R404.1.3.3, R404.1.3.4, R404.1.4.2, R404.5.1, R608.1,  
R608.1.1, R608.1.2, R608.2, R608.5.1, R608.6.1, R608.8.2, R608.9.2, R608.9.3

## REFERENCED STANDARDS

### ACI—continued

#### 332—14: Residential Code Requirements for Structural Concrete

R402.2, R403.1, R404.1.3, R404.1.3.4, R404.1.4.2, R506.1

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## AISI

American Iron and Steel Institute  
25 Massachusetts Avenue, NW Suite 800  
Washington, DC 20001

#### AISI S100—16: North American Specification for the Design of Cold-formed Steel Structural Members, 2016

R608.9.2, R608.9.3

#### AISI S220—15: North American Standard for Cold-formed Steel Framing—Nonstructural Members, 2015

R702.3.3

#### AISI S230—15: Standard for Cold-formed Steel Framing—Prescriptive Method for One- and Two-family Dwellings, 2015

R301.1.1, R301.2.1.1, R301.2.2.7, R301.2.2.8, R603.6, R603.9.4.1, R603.9.4.2, R608.9.2, R608.9.3,  
Figure 608.9(11), R608.10

#### AISI S240—15: North American Standard for Cold-Formed Steel Structural Framing

R505.1.3, R603.6, R702.3.3, R804.3.6

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## AMCA

Air Movement and Control Association International  
30 West University Drive  
Arlington Heights, IL 60004

#### ANSI/AMCA 210-ANSI/ASHRAE 51—07: Laboratory Methods of Testing Fans for Aerodynamic Performance Rating

Table M1505.3

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## ANCE

Association of the Electric Sector  
Av. Lázaro Cardenas No. 869  
Col. Nueva Industrial Vallejo  
C.P. 07700 México D.F.

#### NMX-J-521/2-40-ANCE—2014/CAN/CSA-22.2 No. 60335-2-40—12/UL 60335-2-40: Safety of Household and Similar Electric Appliances, Part 2-40: Particular Requirements for Heat Pumps, Air-Conditioners and Dehumidifiers

M1403.1, M1412.1, M1413.1

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## ANSI

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

#### A108.1A—16: Installation of Ceramic Tile in the Wet-set Method, with Portland Cement Mortar

R702.4.1

#### A108.1B—99: Installation of Ceramic Tile, Quarry Tile on a Cured Portland Cement Mortar Setting Bed with Dry-set or Latex Portland Mortar

R702.4.1

#### A108.4—99: Installation of Ceramic Tile with Organic Adhesives or Water-Cleanable Tile-setting Epoxy Adhesive

R702.4.1

#### A108.5—99: Installation of Ceramic Tile with Dry-set Portland Cement Mortar or Latex Portland Cement Mortar

R702.4.1

#### A108.6—99: Installation of Ceramic Tile with Chemical-resistant, Water-cleanable Tile-setting and -grouting Epoxy

R702.4.1

#### A108.11—99: Interior Installation of Cementitious Backer Units

R702.4.1

#### ANSI 117—2015: Standard Specifications for Structural Glued Laminated Timber of Softwood Species

R502.1.3, R602.1.3, R802.1.3

#### A118.1—16: American National Standard Specifications for Dry-set Portland Cement Mortar

R702.4.1

**ANSI—continued**

- A118.3—13: American National Standard Specifications for Chemical-resistant, Water-cleanable Tile-setting and -grouting Epoxy, and Water-cleanable Tile-setting Epoxy Adhesive**  
R702.4.1
- A118.4—16: American National Standard Specifications for Modified Dry-Set Cement Mortar**  
R606.2.11
- A118.10—99: Specification for Load-bearing, Bonded, Waterproof Membranes for Thin-set Ceramic Tile and Dimension Stone Installation**  
P2709.2, P2709.2.4
- A136.1—08: American National Standard Specifications for Organic Adhesives for Installation of Ceramic Tile**  
R702.4.1
- A137.1—17: American National Standard Specifications for Ceramic Tile**  
R702.4.1
- LC1/CSA 6.26—13: Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST)**  
G2414.5.4, G2411.3, G2415.5
- LC4/CSA 6.32—12: Press-connect Metallic Fittings for Use in Fuel Gas Distribution Systems**  
G2414.10.1, G2414.10.2, G2414.10.3, G2415.5
- Z21.1—2010: Household Cooking Gas Appliances**  
G2447.1, M1503.2
- Z21.5.1/CSA 7.1—14: Gas Clothes Dryers—Volume I—Type I Clothes Dryers**  
G2438.1
- Z21.8—94 (R2002): Installation of Domestic Gas Conversion Burners**  
G2443.1
- Z21.10.1/CSA 4.1—12: Gas Water Heaters—Volume I—Storage Water Heaters with Input Ratings of 75,000 Btu per hour or Less**  
G2448.1
- Z21.10.3/CSA 4.3—11: Gas Water Heaters—Volume III—Storage Water Heaters with Input Ratings above 75,000 Btu per hour, Circulating and Instantaneous**  
G2448.1
- Z21.11.2—11: Gas-fired Room Heaters—Volume II—Unvented Room Heaters**  
G2445.1
- Z21.13/CSA 4.9—11: Gas-fired Low-pressure Steam and Hot Water Boilers**  
G2452.1
- Z21.15/CSA 9.1—09: Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves**  
Table G2420.1.1
- Z21.22—99 (R2003): Relief Valves for Hot Water Supply Systems—with Addenda Z21.22a—2000 (R2003) and 21.22b—2001 (R2003)**  
P2804.2, P2804.7
- Z21.24/CSA 6.10—06: Connectors for Gas Appliances**  
G2422.1, G2422.2
- Z21.40.1/CSA 2.91—96 (R2011): Gas-fired, Heat-activated Air-conditioning and Heat Pump Appliances**  
G2449.1
- Z21.40.2/CSA 2.92—96 (R2011): Air-conditioning and Heat Pump Appliances (Thermal Combustion)**  
G2449.1
- Z21.42—2014: Gas-fired Illuminating Appliances**  
G2450.1
- Z21.47/CSA 2.3—12: Gas-fired Central Furnaces**  
G2442.1
- Z21.50/CSA 2.22—16: Vented Gas Fireplaces**  
G2434.1
- Z21.54—2009: Gas Hose Connectors for Portable Outdoor Gas-fired Appliances**  
G2422.1
- Z21.56/CSA 4.7—17: Gas-fired Pool Heaters**  
G2441.1

## REFERENCED STANDARDS

### ANSI—continued

- Z21.58—95/CSA 1.6—13: Outdoor Cooking Gas Appliances**  
G2447.1
- Z21.60/CSA 2.26—12: Decorative Gas Appliances for Installation in Solid Fuel-burning Fireplaces**  
G2432.1
- Z21.69/CSA 6.16—09: Connectors for Movable Gas Appliances**  
G2422.1.5
- Z21.75/CSA 6.27—07: Connectors for Outdoor Gas Appliances and Manufactured Homes**  
G2422.1
- Z21.80/CSA 6.22—11: Line Pressure Regulators**  
G2421.1
- ANSI/CSA FC 1—12: Stationary Fuel Cell Power Systems**  
M1903.1
- Z21.84—12: Manually Listed, Natural Gas Decorative Gas Appliances for Installation in Solid Fuel-burning Fireplaces**  
G2432.1, G2432.2
- Z21.86/CSA 2.32—08: Gas-fired Vented Space Heating Appliances**  
G2436.1, G2437.1, G2446.1
- Z21.88/CSA 2.33—16: Vented Gas Fireplace Heaters**  
G2435.1
- Z21.91—07: Ventless Firebox Enclosures for Gas-fired Unvented Decorative Room Heaters**  
G2445.7.1
- Z21.93/CSA 6.30—13: Excess Flow Valves for Natural and LP Gas with Pressures up to 5 psig**  
G2421.4
- Z21.97—12: Outdoor Decorative Appliances**  
G2454.1
- Z83.6—90 (R1998): Gas-fired Infrared Heaters**  
G2451.1
- Z83.8/CSA 2.6—09: Gas-fired Unit Heaters, Gas Packaged Heaters, Gas Utility Heaters and Gas-fired Duct Furnaces**  
G2444.1
- Z83.19—01 (R2009): Gas-fuel High-intensity Infrared Heaters**  
G2451.1
- Z83.20—08: Gas-fired Low-intensity Infrared Heaters Outdoor Decorative Appliances**  
G2451.1
- Z97.1—2014: Safety Glazing Materials Used in Buildings—Safety Performance Specifications and Methods of Test**  
R308.1.1, R308.3.1, Table R303.3.1(2)

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## APA

APA—The Engineered Wood Association  
7011 South 19th  
Tacoma, WA 98466

- ANSI/A190.1—2017: Structural Glued-laminated Timber**  
R502.1.3, R602.1.3, R802.1.2
- ANSI/APA PRP 210—2014: Standard for Performance-rated Engineered Wood Siding**  
R604.1, Table R703.3(1), R703.3.4
- ANSI/APA PRG 320—2017: Standard for Performance-rated Cross Laminated Timber**  
R502.1.6, R602.1.6, R802.1.6
- ANSI/APA PRR 410—2016: Standard for Performance-rated Engineered Wood Rim Boards**  
R502.1.7, R602.1.7, R802.1.7
- ANSI/APA PRS 610.1—2013: Standard for Performance-Rated Structural Insulated Panels in Wall Applications**  
R602.1.11, R610.3, R610.4
- APA E30—15: Engineered Wood Construction Guide**  
Table R503.2.1.1(1), R503.2.2, R803.2.2, R803.2.3

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## APSP

The Association of Pool & Spa Professionals  
211 Eisenhower Avenue, Suite 500  
Alexander, VA 22314

**ANSI/APSP/ICC 14—2014: American National Standard for Portable Electric Spa Energy Efficiency**  
N1103.11

**ANSI/APSP/ICC 15a—2011: American National Standard for Residential Swimming Pool and Spa Energy Efficiency—includes Appendix A Approved January 9, 2013**  
N1103.12

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## ASCE/SEI

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

**7—16: Minimum Design Loads and Associated Criteria for Buildings and Other Structures**  
R301.2.1.1, R301.2.1.2, R301.2.1.2.1, R301.2.1.5, R301.2.1.5.1, Table R608.6(1), Table R608.6(2),  
Table R608.6(3), Table R608.6(4), Table R608.7(1A), Table R608.7(1B), Table R608.7(1C), R608.9.2,  
R608.9.3, R609.2, R609.6.2, AH107.4.3

**24—14: Flood-resistant Design and Construction**  
R301.2.4, R301.2.4.1, R322.1, R322.1.1, R322.1.6, R322.1.9, R322.2.2, R322.3.3

**32—17: Design and Construction of Frost-protected Shallow Foundations**  
R403.1.4.1

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## ASHRAE

ASHRE  
1791 Tullie Circle NE  
Atlanta, GA 30329

**ASHRAE—2001: 2001 ASHRAE Handbook of Fundamentals**  
Table N1105.5.2(1)

**ASHRAE—2017: ASHRAE Handbook of Fundamentals**  
N1102.1.5, P3001.2, P3101.4

**ASHRAE 193—2010(RA 2014): Method of Test for Determining Air Tightness of HVAC Equipment**  
N1103.3.2.1

**34—2016: Designation and Safety Classification of Refrigerants**  
M1411.1

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## ASME

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

**ASME A17.1—2016/CSA B44—16: Safety Code for Elevators and Escalators**  
R321.1

**A18.1—2014: Safety Standard for Platforms and Stairway Chair Lifts**  
R321.2

**A112.1.2—2012: Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water Connected Receptors)**  
P2717.1, Table P2902.3, P2902.3.1

**A112.1.3—2000 (Reaffirmed 2015): Air Gap Fittings for Use with Plumbing Fixtures, Appliances and Appurtenances**  
Table P2701.1, P2717.1, Table P2902.3, P2902.3.1

**A112.3.1—2007(R2012): Stainless Steel Drainage Systems for Sanitary, DWV, Storm and Vacuum Applications Above and Below Ground**  
Table P3002.1(1), Table P3002.1(2), Table P3002.2, Table P3002.3, Table P3302.1

**A112.3.4—2013/CSA B45.9—13: Macerating Toilet Systems and Related Components**  
Table P2701.1, P3007.5

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### ASME—continued

- A112.4.1—2009: Water Heater Relief Valve Drain Tubes**  
P2804.6.1
- ASME A112.4.2—2015/CSA B45.16—15: Water-closet Personal Hygiene Devices**  
P2722.5
- A112.4.3—1999 (R2010): Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System**  
P3003.14
- A112.4.14—2004 (R2016): Manually Operated, Quarter-turn Shutoff Valves for Use in Plumbing Systems**  
Table P2903.9.4
- A112.6.2—2000 (R2016): Framing-affixed Supports for Off-the-floor Water Closets with Concealed Tanks**  
Table P2701.1, P2702.4
- A112.6.3—2001 (R2016): Floor and Trench Drains**  
Table P2701.1
- A112.14.1—03(2012): Backwater Valves**  
P3008.3
- A112.18.1—2017/CSA B125.1—2017: Plumbing Supply Fittings**  
Table P2701.1, P2708.5, P2722.1, P2722.3, P2727.2, P2902.2, Table P2903.9.4
- A112.18.2—2015/CSA B125.2—2015: Plumbing Waste Fittings**  
Table P2701.1, P2702.2
- A112.18.3—2002(R2012): Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings**  
P2708.5, P2722.3
- A112.18.6—2017/CSA B125.6—17: Flexible Water Connectors**  
P2906.7
- A112.19.1—2013/CSA B45.2—2013: Enameled Cast-iron and Enameled Steel Plumbing Fixtures**  
Table P2701.1, P2711.1
- A112.19.2—2013/CSA B45.1—2013: Ceramic Plumbing Fixtures**  
Table P2701.1, P2705.1, P2711.1, P2712.1, P2712.2, P2712.9
- A112.19.3—2008/CSA B45.4—08 (R2013): Stainless Steel Plumbing Fixtures**  
Table P2701.1, P2705.1, P2711.1, P2712.1
- A112.19.5—2017/CSA B45.15—2017: Flush Valves and Spuds for Water-closets, Urinals and Tanks**  
Table P2701.1
- A112.19.7—2017/CSA B45.10—2017: Hydromassage Bathtub Systems**  
Table P2701.1
- A112.19.12—2014: Wall-mounted and Pedestal-mounted, Adjustable, Elevating, Tilting, and Pivoting Lavatory and Sink, and Shampoo Bowl Carrier Systems and Drain Waste Systems**  
Table P2701.1, P2711.4, P2714.2
- A112.19.14—2013: Six-Liter Water Closets Equipped with Dual Flushing Device**  
P2712.1
- A112.19.15—2012: Bathtub/Whirlpool Bathtubs with Pressure-sealed Doors**  
Table P2701.1, P2713.2
- A112.36.2m—1991 (R2012): Cleanouts**  
P3005.2.10.2
- ASSE 1002—2015/ASME A112.1002—2015/CSA B125.12—15: Anti-Siphon Fill Valves**  
Table P2701.1, Table P2902.3, P2902.4.1
- B1.20.1—2013: Pipe Threads, General-purpose (Inch)**  
G2414.9, P3003.3.3, P3003.6.4, P3003.7.1, P3003.9.3
- B16.3—2016: Malleable-iron-threaded Fittings, 150 and 300**  
Table P2906.6
- B16.4—2016: Gray-iron-threaded Fittings**  
Table P2906.6, Table P3002.3
- B16.9—2012: Factory-made, Wrought-steel Buttwelding Fittings**  
Table P2906.6

ASME—continued

- B16.11—2016: Forged Fittings, Socket-welding and Threaded**  
Table P2906.6
- B16.12—2009 (R2014): Cast-iron-threaded Drainage Fittings**  
Table P3002.3
- B16.15—2013: Cast-Alloy-threaded Fittings: Classes 125 and 250**  
Table P2906.6, Table P3002.3
- B16.18—2012: Cast-copper-alloy Solder Joint Pressure Fittings**  
Table P2906.6, Table P3002.3
- B16.22—2013: Wrought-copper and Copper-alloy Solder Joint Pressure Fittings**  
Table P2906.6, Table P3002.3
- B16.23—2016: Cast-copper-alloy Solder Joint Drainage Fittings (DWV)**  
Table P3002.3
- B16.26—2016: Cast-copper-alloy Fittings for Flared Copper Tubes**  
Table P2906.6, Table P3002.3
- B16.28—1994: Wrought-steel Buttwelding Short Radius Elbows and Returns**  
Table P2906.6
- B16.29—2012: Wrought-copper and Wrought-copper-alloy Solder Joint Drainage Fittings (DWV)**  
Table P3002.3
- B16.33—2012: Manually Operated Metallic Gas Valves for Use in Gas Piping Systems up to 125 psig (Sizes 1/2 through 2)**  
Table G2420.1.1
- B16.34—2015: Valves—Flanged, Threaded and Welding End**  
Table P2903.9.4
- B16.44—2012: Manually Operated Metallic Gas Valves for Use in Above-ground Piping Systems up to 5 psi**  
Table G2420.1.1
- B16.51—2013: Copper and Copper Alloy Press-Connect Pressure Fittings**  
Table M2101.1, M2103.3, Table P2906.6
- B36.10M—2004(R2015): Welded and Seamless Wrought-steel Pipe**  
G2414.4.2
- BPVC—2015: ASME Boiler and Pressure Vessel Code (Sections I, II, IV, V, VI and VIII)**  
M2001.1.1, G2452.1
- CSD-1—2016: Controls and Safety Devices for Automatically Fired Boilers**  
M2001.1.1, G2452.1
- ASSE 1016—2017/ASME 112.1016—2017/CSA B125.16—2017: Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations**  
Table P2701.1, P2708.4, P2722.2
- ASSE 1070—2015/ASME A112.1070—2015/CSA B125.70—15: Performance Requirements for Water-temperature-limiting Devices**  
P2713.3, P2721.2

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**ASSE**

ASSE International  
18927 Hickory Creek Drive, Suite 220  
Mokena, IL 60448

- 1001—2016: Performance Requirements for Atmospheric-type Vacuum Breakers**  
Table P2902.3, P2902.3.2
- ASSE 1002—2015/ASME A112.1002—2015/CSA B125.12—15: Anti-Siphon Fill Valves**  
Table P2701.1, Table P2902.3, P2902.4.1
- 1003—2009: Performance Requirements for Water-pressure-reducing Valves for Domestic Water Distribution Systems**  
P2903.3.1
- 1008—2006: Performance Requirements for Plumbing Aspects of Residential Food Waste Disposer Units**  
Table P2701.1
- 1010—2004: Performance Requirements for Water Hammer Arresters**  
P2903.5

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- 1011—2016: Performance Requirements for Hose Connection Vacuum Breakers**  
Table P2902.3, P2902.3.2
- 1012—2009: Performance Requirements for Backflow Preventers with Intermediate Atmospheric Vent**  
Table P2902.3, P2902.3.3, P2902.5.1, P2902.5.5.3
- 1013—2017: Performance Requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers**  
Table P2902.3, P2902.3.5, P2902.5.1, P2902.5.5.3
- 1015—2017: Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies**  
Table P2902.3, P2902.3.6
- ASSE 1016—2017/ASME 112.1016—2017/CSA B125.16—2017: Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations**  
Table P2701.1, P2708.4, P2722.2
- 1017—2010: Performance Requirements for Temperature-actuated Mixing Valves for Hot Water Distribution Systems**  
P2724.1, P2802.1, P2803.2
- 1018—2017: Performance Requirements for Trap Seal Primer Valves; Potable Water Supplied**  
P3201.2.1, P3201.2.2
- 1019—2016: Performance Requirements for Freeze-resistant, Wall Hydrants, Vacuum Breaker, Draining Types**  
Table P2701.1, Table P2902.3, P2902.3.2
- 1020—2004: Performance Requirements for Pressure Vacuum Breaker Assembly**  
Table P2902.3, P2902.3.4
- 1023—2016: Performance Requirements for Hot Water Dispensers, Household-storage-type—Electrical**  
Table P2701.1
- 1024—2016: Performance Requirements for Dual Check Backflow Preventers, Anti-siphon-type, Residential Applications**  
Table P2902.3, P2902.3.7
- 1035—2008: Performance Requirements for Laboratory Faucet Backflow Preventers**  
Table P2902.3, P2902.3.2
- ASSE 1037—2015/ASME A112.1037—2015/CSA B125.37—15: Performance Requirements for Pressurized Flushing Devices for Plumbing Fixtures**  
Table P2701.1
- 1044—2010: Performance Requirements for Trap Seal Primer Devices Drainage Types and Electronic Design Types**  
P3201.2.1.3
- 1047—2017: Performance Requirements for Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies**  
Table P2902.3, P2902.3.5
- 1048—2017: Performance Requirements for Double Check Detector Fire Protection Backflow Prevention Assemblies**  
Table P2902.3, P2902.3.6
- 1050—2009: Performance Requirements for Stack Air Admittance Valves for Sanitary Drainage Systems**  
P3114.1
- 1051—2009: Performance Requirements for Individual and Branch-type Air Admittance Valves for Plumbing Drainage Systems**  
P3114.1
- 1052—2016: Performance Requirements for Hose Connection Backflow Preventers**  
Table P2701.1, Table P2902.3, P2902.3.2
- 1056—2013: Performance Requirements for Spill-resistant Vacuum Breakers**  
Table P2902.3, P2902.3.4
- 1060—2016: Performance Requirements for Outdoor Enclosures for Fluid-conveying Components**  
P2902.6.1
- 1061—2015: Performance Requirements for Push Fit Fittings**  
Table P2906.6, P2906.21
- 1062—2016: Performance Requirements for Temperature-actuated, Flow Reduction (TAFR) Valves for Individual Supply Fittings**  
Table P2701.1, P2724.2



## ASSE—continued

**1066—2016: Performance Requirements for Individual Pressure Balancing In-line Valves for Individual Fixture Fittings**  
P2722.4

**ASSE 1070—2015/ASME A112.1070—2015/CSA B125.70—15 : Performance Requirements for Water-temperature-limiting Devices**  
P2713.3, P2721.2, P2724.1

**1072—2007: Performance Requirements for Barrier-type Floor Drain Trap Seal Protection Devices**  
P3201.2.1.4

## ASTM

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

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- F2159—14: Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing**  
Table P2906.6
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Table P2906.4, Table P2906.5
- F2389—15: Standard for Pressure-rated Polypropylene (PP) Piping Systems**  
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- F2623—14: Standard Specification for Polyethylene of Raised Temperature (PE-RT) SDRG Tubing**  
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- F2735—09: Standard Specification for Plastic Insert Fittings for SDR9 Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing**  
Table M2101.1, Table P2906.6
- F2769—14: Polyethylene or Raised Temperature (PE-RT) Plastic Hot and Cold-Water Tubing and Distribution Systems**  
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- F2806—10(2015): Standard Specification for Acrylonitrile-butadiene-styrene (ABS) Plastic Pipe (Metric SDR-PR)**  
Table M2101.1

**ASTM—continued**

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

Table P2906.4, Table P2906.5, Table AG101.1

**F2945—2015: Standard Specification for Polyamide 11 Gas Pressure Pipe, Tubing and Fittings**

G2414.6

**F2969—12: Standard Specification for Acrylonitrile-butadiene-styrene (ABS) IPS Dimensioned Pressure Pipe**

Table M2101.1

**AWC**

American Wood Council  
222 Catoctin Circle SE, Suite 201  
Leesburg, VA 20175

**AWC STJR—2015: Span Tables for Joists and Rafters**

R502.3, R802.4.1, R802.5.1

**ANSI/AWC WFCM—2018: Wood Frame Construction Manual for One- and Two-family Dwellings**

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R317.3.2, R401.1, R404.2.3

**AWPA**

American Wood Protection Association  
P.O. Box 361784  
Birmingham, AL 35236-1784

**C1—03: All Timber Products—Preservative Treatment by Pressure Processes**

R902.2

**M4—16: Standard for the Care of Preservative-treated Wood Products**

R317.1.1, R318.1.2

**U1—16: USE CATEGORY SYSTEM: User Specification for Treated Wood Except Commodity Specification H**

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**AWS**

American Welding Society  
8669 NW 36 Street, #130  
Miami, FL 33166

**A5.8M/A5.8—2011: Specifications for Filler Metals for Brazing and Braze Welding**

P3003.6.1

**ANSI/AWS A5.31M/A5.31—2012: Specification for Fluxes for Brazing and Braze Welding Edition: 2nd**

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**AWWA**

American Water Works Association  
6666 West Quincy Avenue  
Denver, CO 80235

**C104/A21.4—13: Cement-mortar Lining for Ductile-iron Pipe and Fittings**

P2906.4

**C110/A21.10—12: Ductile-iron and Gray-iron Fittings**

Table P2906.6, P3002.3

**C115/A21.15—11: Flanged Ductile-iron Pipe with Ductile-iron or Gray-iron Threaded Flanges**

Table P2906.4

**C151/A21.51—09: Ductile-iron Pipe, Centrifugally Cast, for Water**

Table P2906.4

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Table P2906.6

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Table P2903.9.4

**C504—10: Standard for Rubber-seated Butterfly Valves**

Table P2903.9.4

**C507—15: Standard for Ball Valves, 6 In. Through 60 In. (150 mm through 1,500 mm)**

Table P2903.9.4

**C510—07: Double Check Valve Backflow Prevention Assembly**

Table P2902.3, P2902.3.6

**C511—07: Reduced-pressure Principle Backflow Prevention Assembly**

Table P2902.3, P2902.3.5, P2902.5.1

**C901—16: Polyethylene (PE) Pressure Pipe and Tubing 1/2 in. (13 mm) through 3 in. (76 mm) for Water Service**

P2906.4, Table AG101.1

**C903—16: Polyethylene-aluminum-polyethylene (PE-AL-PE) Composite Pressure Pipe, 12 mm (1/2 in.) through 50 mm (2 in.), for Water Service**

Table M2101

**C904—16: Cross-linked Polyethylene (PEX) Pressure Tubing, 1/2 in. (13 mm) through 3 in. (76 mm) for Water Service**

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## CEN

European Committee for Standardization (EN)

Central Secretariat

Rue de Stassart 36

B-10 50 Brussels

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R1002.2

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## CISPI

Cast Iron Soil Pipe Institute

2401 Fieldcrest Drive

Mundelein, IL 60060

**301—12: Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications**

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P3003.4.3

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## CPA

Composite Panel Association

19465 Deerfield Avenue, Suite 306

Leesburg, VA 20176

**ANSI A135.4—2012: Basic Hardboard**

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**ANSI A135.5—2012: Prefinished Hardboard Paneling**

R702.5

**ANSI A135.6—2012: Engineered Wood Siding**

R703.5

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R703.5

**A208.1—2016: Particleboard**

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## CPSC

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

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R302.10.3
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## CSA

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

- AAMA/WDMA/CSA 101/I.S.2/A440—17: North American Fenestration Standard/Specification for Windows, Doors and Unit Skylights**  
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P2906.7
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G2433.1
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Table P3002.2

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- B64.1.3—16: Spill Resistant Pressure Vacuum Breakers (SRPVB)**  
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- B64.2—16: Vacuum Breakers, Hose Connection Type (HCVB)**  
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- B64.2.2—16: Vacuum Breakers, Hose Connection Type (HCVB) with Automatic Draining Feature**  
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- B64.3—16: Dual Check Backflow Preventers with Atmospheric Port (DCAP)**  
Table P2902.3, P2902.3.2, P2902.5.1
- B64.4—16: Backflow Preventers, Reduced Pressure Principle Type (RP)**  
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- B64.4.1—16: Reduced Pressure Principle for Fire Sprinklers (RPF)**  
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- B64.5—16: Double Check Backflow Preventers (DCVA)**  
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- B64.5.1—16: Double Check Valve Backflow Preventers, Type for Fire Systems (DCVAF)**  
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- B64.6—16: Dual Check Valve Backflow Preventers (DuC)**  
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- B125.3—12: Plumbing Fittings**  
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- B182.4—15: Profile polyvinylchloride (PVC) Sewer Pipe & Fittings**  
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- B182.6—15: Profile Polyethylene (PE) Sewer Pipe and Fittings for leak-proof Sewer Applications**  
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- B182.8—15: Profile Polyethylene (PE) Storm Sewer and Drainage Pipe and Fittings**  
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- B356—10: Water Pressure Reducing Valves for Domestic Water Supply Systems**  
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- B483.1—07(R2012): Drinking Water Treatment Systems**  
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- B602—15: Mechanical Couplings for Drain, Waste and Vent Pipe and Sewer Pipe**  
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**CSSB**

Cedar Shake & Shingle Bureau  
 P.O. Box 1178  
 Sumas, WA 98295-1178

- CSSB—97: Grading and Packing Rules for Western Red Cedar Shakes and Western Red Shingles of the Cedar Shake and Shingle Bureau**  
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Door & Access Systems Manufacturers Association International  
1300 Sumner Avenue  
Cleveland, OH 44115-2851

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1401 Constitution Avenue, NW  
Washington, DC 20230

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### DOTn

U.S. Department of Transportation  
1200 New Jersey Avenue SE  
East Building, 2nd floor  
Washington, DC 20590

**49 CFR, Parts 192.281(e) & 192.283 (b) (2009): Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards**  
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Federal Emergency Management Agency  
500 C Street SW  
Washington, DC 20472

**FEMA TB-2—08: Flood Damage-resistant Materials Requirements**  
R322.1.8

**FEMA TB-11—01: Crawlspace Construction for Buildings Located in Special Flood Hazard Area**  
R408.7

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### FM

FM Approvals  
Headquarters Office  
1151 Boston-Providence Turnpike  
P.O. Box 9102  
Norwood, MA 02062

**4450—(1989): Approval Standard for Class 1 Insulated Steel Deck Roofs—with Supplements through July 1992**  
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## GA

Gypsum Association  
6525 Belcrest Road, Suite 480  
Hyattsville, MD 20782

**GA-253—2016: Application of Gypsum Sheathing**  
Table R602.3(1)

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## HPVA

Hardwood Plywood & Veneer Association  
1825 Michael Faraday Drive  
Reston, Virginia 20190

**ANSI/HPVA HP-1—2016: American National Standard for Hardwood and Decorative Plywood**  
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## HVI

Home Ventilating Institute  
1000 North Rand Road Suite 214  
Wauconda, IL 60084

**916—09 Airflow Test Procedure**  
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## IAPMO

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

**CSA B45.5—17/IAPMO Z124—2017: Plastic Plumbing Fixtures**  
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## ICC

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

**ANSI/RESNET/ICC 301—2014: Standard for the Calculation and Labeling of the Energy Performance of Low-Rise Residential Buildings using the Energy Rating Index, March 7, 2014, republished 2016**  
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Institute of Electrical and Electronic Engineers, Inc.  
3 Park Avenue, 17th Floor  
New York, NY 10016-5997

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N1103.5.1.2

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## ISO

International Organization for Standardization  
Chemin de Blandonnet 8  
CP 401  
1214 Vernier  
Geneva, Switzerland

- 8336—2009: Fibre-cement Flat Sheets-product Specification and Test Methods**  
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## MSS

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

- SP-42—2013: Corrosion Resistant Gate, Globe, Angle and Check Valves with Flanged and Butt Weld Ends (Classes 150, 300 & 600)**  
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**NAIMA**

North American Insulation Manufacturers Association  
11 Canal Center Plaza, Suite 101  
Alexandria, VA 22314

- AH 116—09: Fibrous Glass Duct Construction Standards, Fifth Edition**  
M1601.1.1

**NFPA**

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

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**NFRC**

National Fenestration Rating Council, Inc.  
6305 Ivy Lane, Suite 140  
Greenbelt, MD 20770

- 100—2017: Procedure for Determining Fenestration Products *U*-Factors  
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- 200—2017: Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence  
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**NGWA**

National Ground Water Association  
601 Dempsey Road  
Westerville, OH 43081

- ANSI/NGWA 01—14: Water Well Construction Standard  
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**NSF**

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

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P2725.1
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**PCA**

Portland Cement Association  
 5420 Old Orchard Road  
 Skokie, IL 60077

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**SBCA**

Structural Building Components Association  
 6300 Enterprise Lane  
 Madison, WI 53719

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**SMACNA**

Sheet Metal & Air Conditioning Contractors National Assoc. Inc.  
 4021 Lafayette Center Road  
 Chantilly, VA 22021

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**TMS**

The Masonry Society  
 105 South Sunset Street, Suite Q  
 Longmont, CO 80501

- 402—2016: Building Code Requirements for Masonry Structures**  
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# TPI

Truss Plate Institute  
218 N. Lee Street, Suite 312  
Alexandria, VA 22314

**TPI 1—2014: National Design Standard for Metal-plate-connected Wood Truss Construction**  
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# UL

UL LLC  
333 Pfingsten Road  
Northbrook, IL 60062

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# ULC

ULC  
13775 Commerce Parkway  
Richmond, BC V6V 2V4

**CAN/ULC S 102.2—2010: Standard Methods for Test for Surface Burning Characteristics of Building Materials and Assemblies**  
R302.10.1, R302.10.2

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## US-FTC

United States-Federal Trade Commission  
600 Pennsylvania Avenue NW  
Washington, DC 20580

**CFR Title 16(2015): R-value Rule**  
N1101.10.4

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## WDMA

Window and Door Manufacturers Association  
2025 M Street NW, Suite 800  
Washington, DC 20036-3309

**AAMA/WDMA/CSA 101/LS2/A440—17: North American Fenestration Standard/Specifications for Windows, Doors and Skylights**  
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**I.S. 11—13: Industry Standard Analytical Method for Design Pressure (DP) Ratings of Fenestration Products**  
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## WMA

World Millwork Alliance (formerly Association of Millwork Distributors Standards AMD)  
10047 Robert Trent Parkway  
New Port Richey, FL 34655-4649

**ANSI WMA 100—2016: Standard Method of Determining Structural Performance Ratings of Side Hinged Exterior Door Systems and Procedures for Component Substitution**  
R609.3