

Part IX—Referenced Standards

CHAPTER 44 REFERENCED STANDARDS

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.

AAMA

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

- AAMA/WDMA/CSA 101/LS.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 Mullled Fenestration Assemblies**
R609.8
- 506—16: Voluntary Specifications for Hurricane Impact and Cycle Testing of Fenestration Products**
R609.6.1
- 711—13: 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

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

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

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

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

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)) 2019/CAN/CSA-22.2 No. 60335-2-40—((42)) 19/UL 60335-2-40-2019: ((Safety of)) Household and Similar Electric Appliances ((s)) = Part 2-40: Particular Requirements for Heat Pumps, Air-Conditioners and Dehumidifiers
M1403.1, M1412.1, M1413.1

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)) 18: 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)

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

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

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—01: Design and Construction of Frost-protected Shallow Foundations
R403.1.4.1

ASHRAE

ASHRAE
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)) 2019: Designation and Safety Classification of Refrigerants
M1411.1

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

REFERENCED STANDARDS

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

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

REFERENCED STANDARDS

ASSE—continued

- 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

A36/A36M—14: Specification for Carbon Structural Steel
R606.15, R608.5.2.2

A53/A53M—12: Specification for Pipe, Steel, Black and Hot-dipped, Zinc-coated Welded and Seamless
R407.3, Table M2101.1, G2414.4.2, Table P2906.4, Table P2906.5, Table P3002.1(1)

A74—15: Specification for Cast-iron Soil Pipe and Fittings
Table P3002.1(1), Table P3002.1(2), Table P3002.2, Table P3002.3, P3005.2.6, Table P3302.1

A106/A106M—14: Specification for Seamless Carbon Steel Pipe for High-temperature Service
Table M2101.1, G2414.4.2

A123/A123M—15: Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
Table 507.2.3

A126—04(2014): Gray Iron Castings for Valves, Flanges and Pipe Fittings
Table P2903.9.4

A153/A153M—09: Specification for Zinc Coating (Hot Dip) on Iron and Steel Hardware
R317.3, Table 507.2.3, Table R606.3.4.1, R703.6.3, R905.7.5, R905.8.6

A167—99(2009): Specification for Stainless and Heat-resisting Chromium-nickel Steel Plate, Sheet and Strip
Table R606.3.4.1

A240/A240M—15A: Standard Specification for Chromium and Chromium-nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications
Table R905.10.3(1)

A254—12: Specification for Copper Brazed Steel Tubing
Table M2101.1, G2414.5.1

A268—2010: Standard Specification for Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service
G2414.5.2

A269—2015: Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service
G2414.5.2

A307—14: Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength
R608.5.2.2, Table R507.2.3

A312/A312M—15A: Specification for Seamless, Welded and Heavily Cold Worked Austenitic Stainless Steel Pipes
Table P2906.4, Table P2906.5, Table P2906.6, P2906.13.2

A463/A463M—15: Standard Specification for Steel Sheet, Aluminum-coated by the Hot-dip Process
Table R905.10.3(2)

A539—99: Specification for Electric-resistance-welded Coiled Steel Tubing for Gas and Fuel Oil Lines
M2202.1

A563—15: Standard Specification for Carbon and Alloy Steel Nuts
Table R507.2.3

A615/A615M—2015aE1: Specification for Deformed and Plain Carbon-steel Bars for Concrete Reinforcement
R402.3.1, R403.1.3.5.1, R404.1.3.3.7.1, R608.5.2.1

A641/A641M—09a(2014): Specification for Zinc-coated (Galvanized) Carbon Steel Wire
Table R606.3.4.1

REFERENCED STANDARDS

ASTM—continued

- A653/A653M—15: Specification for Steel Sheet, Zinc-coated (Galvanized) or Zinc-iron Alloy-coated (Galvannealed) by the Hot-dip Process**
R317.3.1, R505.2.2, Table R507.2.3, R603.2.2, Table R606.3.4.1, R608.5.2.3, R804.2.2, R804.2.3, Table R905.10.3(1), Table R905.10.3(2), M1601.1.1
- A706/A706M—15: Specification for Low-alloy Steel Deformed and Plain Bars for Concrete Reinforcement**
R402.3.1, R403.1.3.5.1, R404.1.3.3.7.1, R608.5.2.1
- A755/A755M—2015: Specification for Steel Sheet, Metallic Coated by the Hot-dip Process and Prepainted by the Coil-coating Process for Exterior Exposed Building Products**
Table R905.10.3(2)
- A778/A778M—15: Specification for Welded Unannealed Austenitic Stainless Steel Tubular Products**
Table P2906.4, Table P2906.5, Table P2906.6
- A792/A792M—10(2015): Specification for Steel Sheet, 55% Aluminum-zinc Alloy-coated by the Hot-dip Process**
R505.2.2, R603.2.2, R608.5.2.3, R804.2.2, Table 905.10.3(2)
- A875/A875M—13: Specification for Steel Sheet, Zinc-5%, Aluminum Alloy-coated by the Hot-dip Process**
R608.5.2.3, Table R905.10.3(2)
- A888—15: Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Application**
Table P3002.1(1), Table P3002.1(2), Table P3002.2, Table P3002.3, Table P3302.1
- A924/A924M—14: Standard Specification for General Requirements for Steel Sheet, Metallic-coated by the Hot-dip Process**
Table R905.10.3(1)
- A996/A996M—15: Specifications for Rail-steel and Axle-steel Deformed Bars for Concrete Reinforcement**
R403.1.3.5.1, R403.2.1, Table R404.1.2(9), R404.1.3.3.7.1, R608.5.2.1, Table R608.5.4(2)
- A1003/A1003M—15: Standard Specification for Steel Sheet, Carbon, Metallic and Nonmetallic-coated for Cold-formed Framing Members**
R505.2.1, R505.2.2, R603.2.1, R603.2.2, R804.2.1, R804.2.2
- B32—08(2014): Specification for Solder Metal**
P3003.6.3
- B42—2015A: Specification for Seamless Copper Pipe, Standard Sizes**
Table M2101.1, Table P2906.4, Table P2906.5, Table P3002.1(1)
- B43—15: Specification for Seamless Red Brass Pipe, Standard Sizes**
Table M2101.1, Table P2906.4, Table P2906.5, Table P3002.1(1)
- B75/B75M—11: Specification for Seamless Copper Tube**
Table M2101.1, Table P2906.4, Table P2906.5, Table P3002.1(1), Table P3002.1(2), Table P3002.2
- B88—14: Specification for Seamless Copper Water Tube**
Table M2101.1, G2414.5.2, Table P2906.4, Table P2906.5, Table P3002.1(1), Table P3002.1(2), Table P3002.2
- B101—12: Specification for Lead-coated Copper Sheet and Strip for Building Construction**
Table R905.2.8.2, Table R905.10.3(1)
- B135—10: Specification for Seamless Brass Tube**
Table M2101.1
- B209—14: Specification for Aluminum and Aluminum-alloy Sheet and Plate**
Table 905.10.3(1)
- B251—10: Specification for General Requirements for Wrought Seamless Copper and Copper-alloy Tube**
Table M2101.1, Table P2906.4, Table P2906.5, Table P3002.1(1), Table P3002.1(2), Table P3002.2
- B302—12: Specification for Threadless Copper Pipe, Standard Sizes**
Table M2101.1, Table P2906.4, Table P2906.5, Table P3002.1(1)
- B306—13: Specification for Copper Drainage Tube (DWV)**
Table M2101.1, Table P3002.1(1), Table P3002.1(2)
- B370—12: Specification for Copper Sheet and Strip for Building Construction**
Table R905.2.8.2, Table R905.10.3(1), Table P2701.1
- B447—12a: Specification for Welded Copper Tube**
Table P2906.4, Table P2906.5

ASTM—continued

- B695—04(2009): Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel**
R317.3.1, R317.3.3, Table R507.2.3
- B813—10: Specification for Liquid and Paste Fluxes for Soldering Applications of Copper and Copper Alloy Tube**
Table M2101.1, M2103.3, P2906.15, P3003.6.3
- B828—02(2010): Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings**
M2103.3, P2906.15, P3003.6.3
- C4—04(2014): Specification for Clay Drain Tile and Perforated Clay Drain Tile**
Table P3302.1
- C5—10: Specification for Quicklime for Structural Purposes**
R702.2.1
- C14—15a: Specification for Non-reinforced Concrete Sewer, Storm Drain and Culvert Pipe**
Table P3002.2
- C22/C22M—2015: Specification for Gypsum**
R702.2.1, R702.3.1
- C27—98(2013): Specification for Standard Classification of Fireclay and High-alumina Refractory Brick**
R1001.5
- C28/C28M—10(2015): Specification for Gypsum Plasters**
R702.2.1
- C33/C33M—13: Specification for Concrete Aggregates**
R403.4.1
- C34—13: Specification for Structural Clay Load-bearing Wall Tile**
Table R301.2(1), R606.2.2
- C35/C35M—(2014): Specification for Inorganic Aggregates for Use in Gypsum Plaster**
R702.2.1
- C55—2014A: Specification for Concrete Building Brick**
R202, Table R301.2(1), R606.2.1
- C56—13: Standard Specification for Structural Clay Nonloadbearing Tile**
R606.2.2
- C59/C59M—00(2015): Specification for Gypsum Casting Plaster and Molding Plaster**
R702.2.1
- C61/C61M—00(2015): Specification for Gypsum Keene’s Cement**
R702.2.1
- C62—13A: Standard Specification for Building Brick (Solid Masonry Units Made from Clay or Shale)**
R202, Table R301.2(1), R606.2.2
- C73—14: Specification for Calcium Silicate Face Brick (Sand Lime Brick)**
R202, Table R301.2(1), R606.2.1
- C76—15A: Specification for Reinforced Concrete Culvert, Storm Drain and Sewer Pipe**
Table P3002.2
- C90—14: Specification for Load-bearing Concrete Masonry Units**
Table R301.2(1), 606.2.1
- C91/C91M—12: Specification for Masonry Cement**
R702.2.2, R703.7.2
- C94/C94M—15A: Standard Specification for Ready-mixed Concrete**
R404.1.3.3.2, R608.5.1.2
- C126—15: Standard Specification for Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units**
R606.2.2
- C129—14A: Specification for Nonload-bearing Concrete Masonry Units**
Table R301.2(1)
- C143/C143M—15: Test Method for Slump of Hydraulic Cement Concrete**
R404.1.3.3.4, R608.5.1.4
- C145—85: Specification for Solid Load-bearing Concrete Masonry Units**
R202, Table R301.2(1)

REFERENCED STANDARDS

ASTM—continued

- C150/C150M—15: Specification for Portland Cement**
R608.5.1.1, R702.7.2
- C199—84(2011): Test Method for Pier Test for Refractory Mortar**
R1001.5, R1001.8, R1003.12
- C203—05a(2012): Standard Test Methods for Breaking Load and Flexural Properties of Block-type Thermal Insulation**
Table R610.3.1
- C207—06(2011): Specification for Hydrated Lime for Masonry Purposes**
Table R606.2.8
- C208—12: Specification for Cellulosic Fiber Insulating Board**
R602.1.10, Table R602.3(1), Table R906.2
- C212—14: Standard Specification for Structural Clay Facing Tile**
R602.2.2
- C216—15: Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)**
R202, Table R301.2(1), R606.2.2
- C270—14A: Specification for Mortar for Unit Masonry**
R606.2.8, Table R606.2.8, R606.2.11
- C315—07(2011): Specification for Clay Flue Liners and Chimney Pots**
R1001.8, R1003.11.1, Table R1003.14(1), G2425.12
- C406/C406M—2015: Specifications for Roofing Slate**
R905.6.4
- C411—11: Test Method for Hot-surface Performance of High-temperature Thermal Insulation**
M1601.3
- C425—04(2013): Specification for Compression Joints for Vitrified Clay Pipe and Fittings**
Table P3002.2, P3003.10, P3003.13
- C443—12: Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets**
P3003.5, P3003.13
- C475/C475M—15: Specification for Joint Compound and Joint Tape for Finishing Gypsum Wallboard**
R702.3.1
- C476—10: Specification for Grout for Masonry**
R606.2.12
- C503/C503M—2010: Standard Specification for Marble Dimension Stone**
R606.2.4
- C514—04(2014): Specification for Nails for the Application of Gypsum Wallboard**
R702.3.1
- C552—15: Standard Specification for Cellular Glass Thermal Insulation**
Table R906.2
- C557—03(2009)e01: Specification for Adhesives for Fastening Gypsum Wallboard to Wood Framing**
R702.3.1.1
- C564—14: Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings**
P3003.4.2, P3003.4.3, P3003.13
- C568/C568M—2010: Standard Specification for Limestone Dimension Stone**
R606.2.4
- C578—15: Specification for Rigid, Cellular Polystyrene Thermal Insulation**
R316.8, R403.3, Table 703.8.4(2), Table R703.15.1, Table R703.15.2, Table R703.16.1,
Table R703.16.2, Table R906.2
- C587—04(2014): Specification for Gypsum Veneer Plaster**
R702.2.1
- C595/C595M—14E1: Specification for Blended Hydraulic Cements**
R608.5.1.1, R702.2.2, R703.7.2
- C615/C615M—11: Standard Specification for Granite Dimension Stone**
R606.2.4

ASTM—continued

- C616/C616M—10: Standard Specification for Quartz-based Dimension Stone**
R606.2.4
- C629/C629M—10: Standard Specification for Slate Dimension Stone**
R606.2.4
- C631—09(2014): Specification for Bonding Compounds for Interior Gypsum Plastering**
R702.2.1
- C645—14: Specification for Nonstructural Steel Framing Members**
R702.3.3
- C652—15: Specification for Hollow Brick (Hollow Masonry Units Made from Clay or Shale)**
R202, Table R301.2(1), R606.2.2
- C685/C685M—14: Specification for Concrete Made by Volumetric Batching and Continuous Mixing**
R404.1.3.3.2, R608.5.1.2
- C700—13: Specification for Vitrified Clay Pipe, Extra Strength, Standard Strength and Perforated**
Table P3002.2, Table P3002.3, Table P3302.1
- C726—12: Standard Specification for Mineral Wool Roof Insulation Board**
Table R906.2
- C728—15: Standard Specification for Perlite Thermal Insulation Board**
Table R906.2
- C744—14: Standard Specification for Prefaced Concrete and Calcium Silicate Masonry Units**
R606.2.1
- C836/C836M—15: Specification for High Solids Content, Cold Liquid-applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course**
R905.15.2
- C841—03(2013): Standard Specification for Installation of Interior Lathing and Furring**
R702.2.1
- C842—05(2015): Standard Specification for Application of Interior Gypsum Plaster**
R702.2.1
- C843—99(2012): Specification for Application of Gypsum Veneer Plaster**
R702.2.1
- C844—2015: Specification for Application of Gypsum Base to Receive Gypsum Veneer Plaster**
R702.2.1
- C847—14A: Specification for Metal Lath**
R702.2.1, R702.2.2
- C887—13: Specification for Packaged, Dry, Combined Materials for Surface Bonding Mortar**
R406.1, R606.2.9
- C897—15: Specification for Aggregate for Job-mixed Portland Cement-based Plasters**
R702.2.2
- C920—14A: Standard Specification for Elastomeric Joint Sealants**
R406.4.1
- C926—15B: Specification for Application of Portland Cement-based Plaster**
R702.2.2, R702.2.2.1, R703.7, R703.7.2, R703.7.2.1, R703.7.4
- C933—14: Specification for Welded Wire Lath**
R702.2.1, R702.2.2
- C946—10: Standard Practice for Construction of Dry-Stacked, Surface-Bonded Walls**
R606.2.9
- C954—15: Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) or to 0.112 in. (2.84 mm) in Thickness**
R505.2.5, R603.2.5, R702.3.5.1, R804.2.5
- C957/C957M—15: Specification for High-solids Content, Cold Liquid-applied Elastomeric Waterproofing Membrane for Use with Integral Wearing Surface**
R905.15.2

REFERENCED STANDARDS

ASTM—continued

- C1002—14: Specification for Steel Self-piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs**
R702.3.1, R702.3.5.1
- C1029—15: Specification for Spray-applied Rigid Cellular Polyurethane Thermal Insulation**
R905.14.2
- C1032—14: Specification for Woven Wire Plaster Base**
R702.2.1, R702.2.2
- C1047—14a: Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base**
R702.2.1, R702.2.2, R702.3.1
- C1063—15A: Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-based Plaster**
R702.2.2, R703.7, R703.7.1
- C1088—14: Standard Specification for Thin Veneer Brick Units Made from Clay or Shale**
R606.2.2
- C1107/C1107M—14A: Standard Specification for Packaged Dry, Hydraulic-cement Grout (Nonshrink)**
R402.3.1
- C1116/C116M—10(2015): Standard Specification for Fiber-reinforced Concrete and Shotcrete**
R402.3.1
- C1157—11/C1157M—11: Standard Performance Specification for Hydraulic Cement**
R608.5.1.1, R703.7.2
- C1167—11: Specification for Clay Roof Tiles**
R905.3.4
- C1173—10(2014): Specification for Flexible Transition Couplings for Underground Piping Systems**
P3003.3.1, P3003.5, P3003.9.1, P3003.10, P3003.12.2, P3003.13
- C1177/C1177M—13: Specification for Glass Mat Gypsum Substrate for Use as Sheathing**
R702.3.1, Table 906.2
- C1178/C1178M—13: Specification for Glass Mat Water-resistant Gypsum Backing Panel**
R702.3.1, R702.3.7, Table R702.4.2
- C1186—08(2012): Specification for Flat Fiber Cement Sheets**
R703.10.1, R703.10.2
- C1261—13: Specification for Firebox Brick for Residential Fireplaces**
R1001.5, R1001.8
- C1277—15: Specification for Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings**
P3003.4.3
- C1278/C1278M—07a(2011): Specification for Fiber-reinforced Gypsum Panels**
R702.3.1, R702.3.7, Table R702.4.2, Table R906.2
- C1283—11: Practice for Installing Clay Flue Lining**
R1003.9.1, R1003.12
- C1288—14: Standard Specification for Discrete Nonasbestos Fiber-cement Interior Substrate Sheets**
Table R503.2.1.1(1), Table R503.2.1.1(2), Table 602.3(2), Table R702.4.2
- C1289—15: Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board**
R316.8, Table R703.15.1, Table R703.15.2, Table R703.16.1, Table R703.16.2, R708.8.4(2),
Table R906.2
- C1325—14: Standard Specification for Nonasbestos Fiber-mat Reinforced Cement Interior Substrate Sheets Backer Units**
Table R702.4.2
- C1328/C1328M—12: Specification for Plastic (Stucco) Cement**
R702.2.2, R703.7.2
- C1363—11: The Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus**
N1101.10.4.1
- C1364—10B: Standard Specification for Architectural Cast Stone**
R606.2.5
- C1396/C1396M—2014A: Specification for Gypsum Board**
Table R602.3(1), R702.2.1, R702.2.2, R702.3.1, R702.3.7

ASTM—continued

- C1405—15: Standard Specification for Glazed Brick (Single Fired, Brick Units)**
R606.2.2
- C1440—08(2013): Specification for Thermoplastic Elastomeric (TPE) Gasket Materials for Drain, Waste and Vent (DWV), Sewer, Sanitary and Storm Plumbing Systems**
P3003.13
- C1460—2012: Specification for Shielded Transition Couplings for Use with Dissimilar DWV Pipe and Fittings Above Ground**
P3003.13
- C1461—08(2013): Specification for Mechanical Couplings Using Thermoplastic Elastomeric (TPE) Gaskets for Joining Drain, Waste and Vent (DWV) Sewer, Sanitary and Storm Plumbing Systems for Above and Below Ground Use**
P3003.13
- C1492—03(2009): Specification for Concrete Roof Tile**
R905.3.5
- C1513—2013: Standard Specification for Steel Tapping Screws for Cold-formed Steel Framing Connections**
R505.2.5, R603.2.5, R702.3.5.1, Table R703.3(2), Table R703.16.1, Table R703.16.2, R804.2.5
- C1540—15: Specification for Heavy Duty Shielded Couplings Joining Hubless Cast-iron Soil Pipe and Fittings**
P3003.4.3
- C1634—15: Standard Specification for Concrete Facing Brick**
R606.2.1
- C1658/C1658M—13: Standard Specification for Glass Mat Gypsum Panels**
R702.3.1
- C1668—13a: Standard Specification for Externally Applied Reflective Insulation Systems on Rigid Duct in Heating, Ventilation, and Air Conditioning (HVAC) Systems**
M1601.3
- C1670/1670M—16: Standard Specification for Adhered Manufactured Stone Masonry Veneer Units**
R606.2.6
- C1691—11: Standard Specification for Unreinforced Autoclaved Aerated Concrete (AAC) Masonry Units**
R606.2.3
- C1693—11: Standard Specification for Autoclaved Aerated Concrete (AAC)**
R606.2.3
- C1766—13: Standard Specification for Factory-Laminated Gypsum Panel Products**
R702.3.1
- D41/D41M—2011: Specification for Asphalt Primer Used in Roofing, Dampproofing and Waterproofing**
Table R905.9.2, Table R905.11.2
- D43/D43M—2000(2012)E1: Specification for Coal Tar Primer Used in Roofing, Dampproofing and Waterproofing**
Table R905.9.2
- D226/D226M—09: Specification for Asphalt-saturated (Organic Felt) Used in Roofing and Waterproofing**
R703.2, R905.1.1, Table R905.1.1(1), R905.8.4, Table R905.9.2
- D227/D227M—03(2011)e1: Specification for Coal Tar Saturated (Organic Felt) Used in Roofing and Waterproofing**
Table R905.9.2
- D312/D321M—15: Specification for Asphalt Used in Roofing**
Table R905.9.2
- D422—63(2007)E2: Test Method for Particle-size Analysis of Soils**
R403.1.8.1
- D449/D449M—03(2014)E1: Specification for Asphalt Used in Dampproofing and Waterproofing**
R406.2
- D450/D450M—07(2013)E1: Specification for Coal-tar Pitch Used in Roofing, Dampproofing and Waterproofing**
Table R905.9.2
- D1227—13: Specification for Emulsified Asphalt Used as a Protective Coating for Roofing**
Table R905.9.2, Table R905.11.2, R905.15.2
- D1248—12: Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable**
M1601.1.2
- D1527—99(2005): Specification for Acrylonitrile-butadiene-styrene (ABS) Plastic Pipe, Schedules 40 and 80**
Table P2906.4

REFERENCED STANDARDS

ASTM—continued

- D1693—15: Test Method for Environmental Stress-cracking of Ethylene Plastics**
Table M2101.1
- D1784—11: Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds**
M1601.1.2
- D1785—15: Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80 and 120**
Table P2906.4, Table AG101.1
- D1863/D1863M—05(2011)e1: Specification for Mineral Aggregate Used in Built-up Roofs**
Table R905.9.2
- D1869—15: Specification for Rubber Rings for Fiber-Reinforced Cement Pipe**
P2906.18, P3003.13
- D1970/D1970M—2015A: Specification for Self-adhering Polymer Modified Bitumen Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection**
R905.1.1.1, R905.2.8.2, R905.11.2.1
- D2104—03: Specification for Polyethylene (PE) Plastic Pipe, Schedule 40**
Table P2906.4
- D2178/D2178M—15: Specification for Asphalt Glass Felt Used in Roofing and Waterproofing**
Table R905.9.2
- D2235—04(2011): Specification for Solvent Cement for Acrylonitrile-butadiene-styrene (ABS) Plastic Pipe and Fittings**
P2906.9.1.1, P3003.3.2
- D2239—12A: Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Controlled Inside Diameter**
Table P2906.4, Table AG101.1
- D2241—15: Specification for Poly (Vinyl Chloride) (PVC) Pressure-rated Pipe (SDR-Series)**
Table P2906.4, Table AG101.1
- D2282—99(2005): Specification for Acrylonitrile-butadiene-styrene (ABS) Plastic Pipe (SDR-PR)**
Table P2905.4
- D2412—11: Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-plate Loading**
M1601.1.2
- D2447—03: Specification for Polyethylene (PE) Plastic Pipe Schedules 40 and 80, Based on Outside Diameter**
Table M2101.1
- D2464—15: Specification for Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80**
Table P2906.6
- D2466—15: Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40**
Table P2906.6
- D2467—15: Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80**
Table P2906.6
- D2468—96a: Specification for Acrylonitrile-butadiene-styrene (ABS) Plastic Pipe Fittings, Schedule 40**
Table P2906.6
- D2513—2014e1: Specification for Gas Pressure Pipe, Tubing and Fittings**
Table M2101.1, G2414.6, G2414.6.1, G2414.11, G2415.17.2
- D2564—12: Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems**
P2906.9.1.4, P3003.9.2
- D2609—15: Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe**
Table P2906.6
- D2626/D2626M—04 (2012)e1: Specification for Asphalt-saturated and Coated Organic Felt Base Sheet Used in Roofing**
Table R905.1.1(1), Table R905.9.2
- D2657—07: Standard Practice for Heat Fusion-joining of Polyolefin Pipe Fittings**
M2105.11.1, P2906.3.1, P2906.20.2, P3003.12.1
- D2661—14: Specification for Acrylonitrile-butadiene-styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings**
Table P3002.1(1), Table P3002.1(2), Table P3002.2, Table P3002.3, P3003.3.2
- D2665—14: Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste and Vent Pipe and Fittings**
Table P3002.1(1), Table P3002.1(2), Table P3002.2, Table P3002.3, Table AG101.1

ASTM—continued

- D2672—14: Specification for Joints for IPS PVC Pipe Using Solvent Cement**
Table P2906.4
- D2683—14: Specification for Socket-type Polyethylene Fittings for Outside Diameter-controlled Polyethylene Pipe and Tubing**
Table M2105.5, M2105.11.1, Table P2606.6, P2906.20.2, P3002.3, P3010.5
- D2729—11: Specification for Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings**
P3009.11, Table P3302.1, Table AG101.1
- D2737—2012A: Specification for Polyethylene (PE) Plastic Tubing**
Table P2906.4, Table AG101.1
- D2751—05: Specification for Acrylonitrile-butadiene-styrene (ABS) Sewer Pipe and Fittings**
Table P3002.2, Table P3002.3
- D2822/D2822M—05(2011)e1: Specification for Asphalt Roof Cement, Asbestos Containing**
Table R905.9.2
- D2823/D2823M—05(2011)e1: Specification for Asphalt Roof Coatings, Asbestos Containing**
Table R905.9.2
- D2824/D2824M—2013: Specification for Aluminum-pigmented Asphalt Roof Coatings, Nonfibered, Asbestos Fibered and Fibered without Asbestos**
Table R905.9.2, Table R905.11.2
- D2846/D2846M—14: Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-water Distribution Systems**
Table M2101.1, Table P2906.4, Table P2906.5, Table P2906.6, P2906.9.1.2, P2906.9.1.3, Table AG101.1
- D2855—96(2010): Standard Practice for Making Solvent-cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings**
P3003.9.2
- D2898—10: Test Methods for Accelerated Weathering of Fire-retardant-treated Wood for Fire Testing**
R802.1.5.4, R802.1.5.8
- D2949—10: Specification for 3.25-in. Outside Diameter Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste and Vent Pipe and Fittings**
Table P3002.1(1), Table P3002.1(2), Table P3002.2, Table P3002.3, Table AG101.1
- D3019—08: Specification for Lap Cement Used with Asphalt Roll Roofing, Nonfibered, Asbestos Fibered and Nonasbestos Fibered**
Table R905.9.2, Table R905.11.2
- D3034—14a: Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings**
Table P3002.2, Table P3002.3, Table P3202.1, Table AG101.1
- D3035—15: Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based On Controlled Outside Diameter**
Table M2105.4, Table AG101.1
- D3138—04(2011): Standard Specification for Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Non-Pressure Piping Components**
P3003.13.4
- D3161/D3161M—15: Test Method for Wind-Resistance of Steep Slope Roofing Products (Fan Induced Method)**
R905.2.4.1, Table R905.2.4.1, R905.16.6
- D3201/D3201M—2013: Test Method for Hygroscopic Properties of Fire-retardant Wood and Wood-base Products**
R802.1.5.9
- D3212—07(2013): Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals**
P3003.3.1, P3003.9.1, P3003.12.2
- D3261—12E1: Specification for Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing**
Table M2101.1, Table M2105.5, M2105.11.1, M2105.13.3, Table P2606.6, P2906.20.2
- D3309—96a(2002): Specification for Polybutylene (PB) Plastic Hot- and Cold-water Distribution System**
Table M2101.1
- D3311—11: Specification for Drain, Waste and Vent (DWV) Plastic Fittings Patterns**
P3002.3
- D3350—14: Specification for Polyethylene Plastic Pipe and Fitting Materials**
Table M2101.1
- D3462/D3462M—10A: Specification for Asphalt Shingles Made From Glass Felt and Surfaced with Mineral Granules**
R905.2.4

REFERENCED STANDARDS

ASTM—continued

- D3468/D3468M—99(2013)E1: Specification for Liquid-applied Neoprene and Chlorosulfanated Polyethylene Used in Roofing and Waterproofing**
R905.15.2
- D3679—13: Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding**
R703.11
- D3737—2012: Practice for Establishing Allowable Properties for Structural Glued Laminated Timber (Glulam)**
R502.1.3, R602.1.3, R802.1.2
- D3747—79(2007): Specification for Emulsified Asphalt Adhesive for Adhering Roof Insulation**
Table R905.9.2, Table R905.11.2
- D3909/D3909M—14: Specification for Asphalt Roll Roofing (Glass Felt) Surfaced with Mineral Granules**
R905.2.8.2, R905.5.4, Table R905.9.2
- D4022/D4022M—2007(2012)e1: Specification for Coal Tar Roof Cement, Asbestos Containing**
Table R905.9.2
- D4068—15: Specification for Chlorinated Polyethylene (CPE) Sheeting for Concealed Water Containment Membrane**
P2709.2, P2709.2.2
- D4318—10E1: Test Methods for Liquid Limit, Plastic Limit and Plasticity Index of Soils**
R403.1.8.1
- D4434/D4434M—12: Specification for Poly (Vinyl Chloride) Sheet Roofing**
R905.13.2
- D4479/D4479M—07(2012)e1: Specification for Asphalt Roof Coatings—asbestos-free**
Table R905.9.2
- D4551—12: Specification for Poly (Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-containment Membrane**
P2709.2, P2709.2.1
- D4586/D4586M—07(2012)e1: Specification for Asphalt Roof Cement—asbestos-free**
Table R905.9.2
- D4601/D4601M—04(2012)e1: Specification for Asphalt-coated Glass Fiber Base Sheet Used in Roofing**
Table R905.9.2, R905.11.2.1
- D4637/D4637M—14E1: Specification for EPDM Sheet Used in Single-ply Roof Membrane**
R905.12.2
- D4829—11: Test Method for Expansion Index of Soils**
R403.1.8.1
- D4869/D4869M—15: Specification for Asphalt-saturated (Organic Felt) Underlayment Used in Steep Slope Roofing**
R905.1.1, Table R905.1.1(1)
- D4897/D4897M—01(2009): Specification for Asphalt Coated Glass-fiber Venting Base Sheet Used in Roofing**
Table R905.9.2
- D4990—1997a(2013): Specification for Coal Tar Glass Felt Used in Roofing and Waterproofing**
Table R905.9.2
- D5019—07a: Specification for Reinforced Nonvulcanized Polymeric Sheet Used in Roofing Membrane**
R905.12.2
- D5055—13E1: Specification for Establishing and Monitoring Structural Capacities of Prefabricated Wood I-joists**
R502.1.2, R802.1.8
- D5456—14B: Standard Specification for Evaluation of Structural Composite Lumber Products**
R502.1.5, R602.1.5, R802.1.4
- D5516—09: Test Method for Evaluating the Flexural Properties of Fire-retardant-treated Softwood Plywood Exposed to the Elevated Temperatures**
R802.1.5.6
- D5643/D5643M—06(2012)e1: Specification for Coal Tar Roof Cement Asbestos-free**
Table R905.9.2
- D5664—10: Test Methods For Evaluating the Effects of Fire-retardant Treatments and Elevated Temperatures on Strength Properties of Fire-retardant-treated Lumber**
R802.1.5.7
- D5665/D5665M—99a(2014)E1: Specification for Thermoplastic Fabrics Used in Cold-applied Roofing and Waterproofing**
Table R905.9.2

ASTM—continued

- D5726—98(2013): Specification for Thermoplastic Fabrics Used in Hot-applied Roofing and Waterproofing**
Table R905.9.2
- D6083—05e01: Specification for Liquid-applied Acrylic Coating Used in Roofing**
Table R905.9.2, Table R905.11.2, Table R905.14.3, R905.15.2
- D6162/D6162M—2000a(2015)E1: Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements**
Table R905.11.2
- D6163/D6163M—2000(2015)E1: Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements**
Table R905.11.2
- D6164/D6164M—11: Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Polyester Reinforcements**
Table R905.11.2
- D6222/D6222M—11: Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using Polyester Reinforcements**
Table R905.11.2
- D6223/D6223M—02(2009)E1: Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcement**
Table R905.11.2
- D6298—13: Specification for Fiberglass-reinforced Styrene Butadiene Styrene (SBS) Modified Bituminous Sheets with a Factory Applied Metal Surface**
Table R905.11.2
- D6305—08(2015)E1: Practice for Calculating Bending Strength Design Adjustment Factors for Fire-retardant-treated Plywood Roof Sheathing**
R802.1.5.6
- D6380/D6380—03(2013)E1: Standard Specification for Asphalt Roll Roofing (Organic Felt)**
Table R905.1.1(1), R905.2.8.2, R905.5.4
- D6464—03a(2009)e1: Standard Specification for Expandable Foam Adhesives for Fastening Gypsum Wallboard to Wood Framing**
R702.3.1.1
- D6694/D6694M—08(2013)E1: Standard Specification for Liquid-applied Silicone Coating Used in Spray Polyurethane Foam Roofing Systems**
Table R905.14.3, R905.15.2
- D6754/D6754M—10: Standard Specification for Ketone-ethylene-ester-based Sheet Roofing**
R905.13.2
- D6757—2013: Specification for Underlayment Felt Containing Inorganic Fibers Used with Steep Slope Roofing**
Table R905.1.1(1), R905.1.1
- D6841—08: Standard Practice for Calculating Design Value Treatment Adjustment Factors for Fire-retardant-treated Lumber**
R802.1.5.7
- D6878/D6878M—13: Standard Specification for Thermoplastic-polyolefin-based Sheet Roofing**
R905.13.2
- D6947/D6947M—07(2013)E1: Standard Specification for Liquid Applied Moisture Cured Polyurethane Coating Used in Spray Polyurethane Foam Roofing System**
Table R905.14.3, R905.15.2
- D7032—14: Standard Specification for Establishing Performance Ratings for Wood-plastic Composite Deck Boards and Guardrail Systems (Guards or Handrails)**
R507.2.2, R507.2.2.1, 507.2.2.3, 507.2.2.4
- D7158—D7158M—2016: Standard Test Method for Wind Resistance of Asphalt Shingles (Uplift Force/Uplift Resistance Method)**
R905.2.4.1, Table R905.2.4.1
- D7254—15: Standard Specification for Polypropylene (PP) siding**
Table R703.3(1), R703.14
- D7425/D7425M—13: Standard Specification for Spray Polyurethane Foam Used for Roofing Application**
R905.14.2
- D7672—14: Standard Specification for Evaluating Structural Capacities of Rim Board Products and Assemblies**
R502.1.7, R602.1.7, R802.1.7

REFERENCED STANDARDS

ASTM—continued

D7793—13: Standard Specification for Insulated Vinyl Siding

R703.13, Table R703.3(1)

E84—2016: Standard Test Method for Surface Burning Characteristics of Building Materials

R202, R302.9.3, R302.9.4, R302.10.1, R302.10.2, R316.3, R316.5.9, R316.5.11, R507.2.2.2, R703.14.3, R802.1.5, M1601.3, M1601.5.2, P2801.6

E96/E96M—2015: Test Method for Water Vapor Transmission of Materials

R202, Table R806.5, M1411.6, M1601.4.6

E108—2016: Test Methods for Fire Tests of Roof Coverings

R302.2.4, R902.1

E119—2016: Test Methods for Fire Tests of Building Construction and Materials

Table R302.1(1), Table R302.1(2), R302.2.1, R302.2.2, R302.3, R302.4.1, R302.11.1, R606.2.2

E136—2016: Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C

R202, R302.11

E283—04(2012): Test Method for Determining the Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences across the Specimen

R202, N1102.4.5

E330/E330M—14: Test Method for Structural Performance of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference

R609.4, R609.5, R609.6.2, R703.1.2

E331—00(2009): Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference

R703.1.1

E779—10: Standard Test Method for Determining Air Leakage Rate by Fan Pressurization

N1102.4.1.2

E814—2013A: Standard Test Method for Fire Tests of Penetration Firestop Systems

R302.4.1.2

E970—14: Standard Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source

R302.10.5

E1509—12: Standard Specification for Room Heaters, Pellet Fuel-burning Type

M1410.1

E1602—03(2010)e1: Guide for Construction of Solid Fuel Burning Masonry Heaters

R1002.2

E1827—11: Standard Test Methods for Determining Airtightness of Building Using an Orifice Blower Door

N1102.4.1.2

E1886—13A: Test Method for Performance Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials

R301.2.1.2, R609.6.1, R609.6.2, Table R703.11.2

E1996—2014a: Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes

R301.2.1.2, R301.2.1.2.1, R609.6.1, R609.6.2

E2178—2013: Standard Test Method for Air Permeance of Building Materials

R202

E2231—15: Standard Practice for Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assess Surface Burning Characteristics

M1601.3

E2556/E2556M—10: Standard Specification for Vapor Permeable Flexible Sheet Water-resistive Barriers Intended for Mechanical Attachment

E2273—03(2011): Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies

R703.9.2

E2568—09e1: Standard Specification for PB Exterior Insulation and Finish Systems

R703.9.1, R703.9.2

ASTM—continued

- E2570/E2570M—07(2014)E1: Standard Test Methods for Evaluating Water-resistive Barrier (WRB) Coatings Used Under Exterior Insulation and Finish Systems (EIFS) or EIFS with Drainage**
R703.9.2
- E2634—11(2015): Standard Specification for Flat Wall Insulating Concrete Form (ICF) Systems**
R404.1.3.3.6.1, R608.4.4
- F405—05: Specification for Corrugated Polyethylene (PE) Pipe and Fittings**
Table P3009.11, Table P3302.1, Table AG101.1
- F409—12: Specification for Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings**
Table P2701.1, P2702.2, P2702.3
- F437—15: Specification for Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80**
Table P2906.6
- F438—15: Specification for Socket-type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40**
Table P2906.6
- F439—13: Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80**
Table P2906.6
- F441/F441M—15: Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80**
Table P2906.4, Table P2906.5, Table AG101.1
- F442/F442M—13E1: Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR)**
Table P2906.4, Table P2906.5, Table AG101.1
- F477—14: Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe**
P2906.18, P3003.13
- F493—14: Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings**
P2906.9.1.2, P2906.9.1.3, P2906.18.2
- F628—12E1: Specification for Acrylonitrile-butadiene-styrene (ABS) Schedule 40 Plastic Drain, Waste and Vent Pipe with a Cellular Core**
Table P3002.1(1), Table P3002.1(2), Table P3002.2, Table P3002.3, P3003.3.2, Table AG101.1
- F656—15: Specification for Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride)(PVC) Plastic Pipe and Fittings**
P2906.9.1.4, P3003.9.2
- F714—13: Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter**
Table P3002.2, Table P3002.1(2), P3010.4
- F844—07a(2013): Standard Specification for Washers, Steel, Plain (Flat), Unhardened for General Use**
Table R507.2.3
- F876—15A: Specification for Cross-linked Polyethylene (PEX) Tubing**
Table M2101.1, Table P2906.4, Table P2906.5, Table AG101.1
- F877—2011A: Specification for Cross-linked Polyethylene (PEX) Plastic Hot- and Cold-water Distribution Systems**
Table M2101.1, Table P2906.6
- F891—10: Specification for Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe with a Cellular Core**
Table P3002.1(1), Table P3002.1(2), Table P3002.2, Table P3302.1, Table AG101.1
- F1055—13: Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and Crosslinked Polyethylene Pipe and Tubing**
Table M2105.5, M2105.11.2, Table P2606.6, P2906.20.2
- F1281—11: Specification for Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Pressure Pipe**
Table M2101.1, Table P2906.4, Table P2906.5, Table P2906.6, P2506.12.1, Table AG101.1
- F1282—10: Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe**
Table M2101.1, Table P2906.4, Table P2906.5, Table P2906.6, P2906.12.1, Table AG101.1
- F1412—09: Specification for Polyolefin Pipe and Fittings for Corrosive Waste Drainage**
Table P3002.1(2), Table P3002.2, Table P3002.3, P3003.11.1
- F1488—14: Specification for Coextruded Composite Pipe**
Table P3002.1(1), Table P3002.1(2), Table P3002.2, Table P3009.11
- F1504—2014: Standard Specification for Folded Poly (Vinyl Chloride) (PVC) for Existing Sewer and Conduit Rehabilitation**
P3011.4

REFERENCED STANDARDS

ASTM—continued

- F1554—15: Specification for Anchor Bolts, Steel, 36, 55 and 105-ksi Yield Strength**
R608.5.2.2
- F1667—15: Specification for Driven Fasteners, Nails, Spikes and Staples**
R317.3, Table R507.2.3, Table R602.3(1), R703.3.3, R703.6.3, Table R703.15.1, Table R703.15.2,
R905.2.5
- F1807—15: Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing**
Table M2101.1, Table P2906.6
- F1866—13: Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings**
Table P3002.3
- F1871—2011: Standard Specification for Folded/Formatted Poly (Vinyl Chloride) Pipe Type A for Existing Sewer and Conduit Rehabilitation**
P3011.4
- F1924—12: Standard Specification for Plastic Mechanical Fittings for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing**
M2105.11.1
- F1960—15: Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) Tubing**
Table M2101.1, Table P2906.6
- F1970—12E1: Standard Specification for Special Engineered Fittings, Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Systems**
M2105.5, Table 2903.9.4
- F1973—13E1: Standard Specification for Factory Assembled Anodeless Risers and Transition Fittings in Polyethylene (PE) and Polyamide 11 (PA 11) Fuel Gas Distribution Systems**
G2415.15.2
- F1974—09(2015): Specification for Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene Composite Pressure Pipe**
Table P2906.6, P2906.12.1
- F1986—01(2011): Multilayer Pipe Type 2, Compression Joints for Hot and Cold Drinking Water Systems**
Table P2906.4, Table P2906.5, Table P2906.6
- F2080—15: Specification for Cold-expansion Fittings with Metal Compression-sleeves for Cross-linked Polyethylene (PEX) Pipe**
Table P2906.6
- F 2090—17: Specification for Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanisms**
R310.1.1, R312.2.1, R312.2.2
- F2098—08: Standard Specification for Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing to Metal Insert and Plastic Insert Fittings**
Table M2101.1, Table P2906.6
- 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
- F2262—09: Standard Specification for Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene Tubing OD Controlled SDR9**
Table P2906.4, Table P2906.5
- F2389—15: Standard for Pressure-rated Polypropylene (PP) Piping Systems**
Table M2105.12.1, Table P2906.4, Table P2906.5, Table P2906.6, P2906.11.1, Table AG101.1
- F2434—14: Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Tubing**
Table P2906.6
- F2623—14: Standard Specification for Polyethylene of Raised Temperature (PE-RT) SDRG Tubing**
Table M2101.1, Table AG101.1
- 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**
Table M2101.1, Table P2906.4, Table P2906.5, Table P2906.6, Table AG101.1

ASTM—continued

- F2806—10(2015): Standard Specification for Acrylonitrile-butadiene-styrene (ABS) Plastic Pipe (Metric SDR-PR)**
Table M2101.1
- 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**
R301.1.1, R301.2.1.1, R602.10.8.2, R608.9.2, Figure R608.9(9), R608.9.3, R608.10
- ANSI/AWC NDS—2018: National Design Specification (NDS) for Wood Construction—with 2018 Supplement**
R404.2.2, R502.2, Table R503.1, R507.2.1, R602.3, R608.9.2, R608.9.3, Table R703.15.1, Table R703.15.2, R802.2
- ANSI/AWC PWF—2015: Permanent Wood Foundation Design Specification**
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—15: 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**
R317.1, R402.1.2, R504.3, R703.6.3, R905.7.5, Table R905.8.5, R905.8.6

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**
M2103.3, M2202.2, P2906.15

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

REFERENCED STANDARDS

AWWA—continued

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

Table P2906.4

C153/A21.53—11: Ductile-iron Compact Fittings for Water Service

Table P2906.6

C500—09: Standard for Metal-seated Gate Valves for Water Supply Service

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

P2906.4, Table AG101.1

CEN

European Committee for Standardization (EN)

Central Secretariat

Rue de Stassart 36

B-10 50 Brussels

EN 15250-2007: Slow Heat Release Appliances Fired by Solid Fuel Requirements and Test Methods

R1002.2

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

Table P3002.1(1), Table P3002.1(2), Table P3002.2, Table P3002.3, Table P3302.1

310—12: Standard Specification for Coupling for Use in Connection with Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications

P3003.4.3

CPA

Composite Panel Association

19465 Deerfield Avenue, Suite 306

Leesburg, VA 20176

ANSI A135.4—2012: Basic Hardboard

Table R602.3(2)

ANSI A135.5—2012: Prefinished Hardboard Paneling

R702.5

ANSI A135.6—2012: Engineered Wood Siding

R703.5

ANSI A135.7—2012: Engineered Wood Trim

R703.5

CPA—continued

A208.1—2016: Particleboard
R503.3.1, R602.1.9, R605.1

CPSC

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

16 CFR, Part 1201—(2002): Safety Standard for Architectural Glazing
R308.1.1, R308.3.1, Table R308.3.1(1)

16 CFR, Part 1209—(2002): Interim Safety Standard for Cellulose Insulation
R302.10.3

16 CFR, Part 1404—(2002): Cellulose Insulation
R302.10.3

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
R308.6.9, R609.3, N1102.4.3

ANSI/CSA FC I—2014: Fuel Cell Technologies—Part 3-100; Stationary fuel cell power systems-Safety
M1903.1

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

ASME A112.4.2—2015/CSA B45.16—15: Water-closet Personal Hygiene Device
P2722.5

ASME A112.18.1—2017/CSA B125.1—2017: Plumbing Supply Fittings
Table P2701.1, P2708.4, P2708.5, P2722.1, P2722.3, P2902.2, Table P2903.9.4

ASME A112.18.2—2015/CSA B125.2—2015: Plumbing Waste Fittings
Table P2701.1, P2702.2

A112.18.6—2017/CSA B125.6—2017: Flexible Water Connectors
P2906.7

ASME A112.19.1—2013/CSA B45.2—13: Enameled Cast-iron and Enameled Steel Plumbing Fixtures
Table P2701.1, P2711.1

ASME A112.19.2—2013/CSA B45.1—13: Ceramic Plumbing Fixtures
Table P2701.1, P2705.1, P2711.1, P2712.1, P2712.2, P2712.9

ASME A112.19.3—2008/CSA B45.4—08 (R2013): Stainless Steel Plumbing Fixtures
Table P2701.1, P2705.1, P2711.1, P2712.1

ASSE 1002—2015/ASME A112.1002—2015/CSA B125.12—15: Anti-Siphon Fill Valves
Table P2701.1, Table P2902.3, P2902.4.1

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, P2724.1

A112.19.5—2011/CSA B45.15—2011: 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

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

CSA 8—93: Requirements for Gas Fired Log Lighters for Wood Burning Fireplaces
G2433.1

REFERENCED STANDARDS

CSA—continued

- CSA A257.1—2014: Non-reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings**
Table P3002.2
- A257.2—14: Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings**
Table P3002.2, P3003.13
- A257.3—14: Joints for Circular Concrete Sewer and Culvert Pipe, Manhole Sections and Fittings Using Rubber Gaskets**
P3003.5, P3003.13
- B44—2013: Safety Code for Elevators and Escalators**
R321.1
- B55.1—2015: Test Method for Measuring Efficiency and Pressure Loss of Drain Water Heat Recovery Units**
N1103.5.4
- B55.2—2015: Drain Water Heat Recovery Units**
N1103.5.4
- B64.1.1—16: Vacuum Breakers, Atmospheric Type (AVB)**
Table P2902.3, P2902.3.2
- B64.1.2—16: Pressure Vacuum Breakers (PVB)**
Table P2902.3, P2902.3.4
- B64.1.3—16: Spill Resistant Pressure Vacuum Breakers (SRPVB)**
Table P2902.3
- B64.2—16: Vacuum Breakers, Hose Connection Type (HCVB)**
Table P2902.3, P2902.3.2
- B64.2.1—16: Hose Connection Vacuum Breakers (HCVB) with Manual Draining Feature**
Table P2902.3, P2902.3.2
- B64.2.1.1—16: Hose Connection Dual Check Vacuum Breakers (HCDVB)**
Table P2902.3, P2902.3.2
- B64.2.2—16: Vacuum Breakers, Hose Connection Type (HCVB) with Automatic Draining Feature**
Table P2902.3, P2902.3.2
- 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)**
Table P2902.3, P2902.3.5, P2903.5.1
- B64.4.1—16: Reduced Pressure Principle for Fire Sprinklers (RPF)**
Table P2902.3, P2902.3.5
- B64.5—16: Double Check Backflow Preventers (DCVA)**
Table P2902.3, P2902.3.6
- B64.5.1—16: Double Check Valve Backflow Preventers, Type for Fire Systems (DCVAF)**
Table P2902.3, P2902.3.6
- B64.6—16: Dual Check Valve Backflow Preventers (DuC)**
Table P2902.3, P2902.3.7
- B64.7—16: Laboratory Faucet Vacuum Breakers (LFVB)**
Table P2902.3, P2902.3.2
- B125.3—12: Plumbing Fittings**
Table P2701.1, P2713.3, P2721.2, Table P2902.3, P2902.4.1, Table P2903.9.4
- B137.1—16: Polyethylene (PE) Pipe, Tubing and Fittings for Cold Water Pressure Services**
Table P2906.4, Table P2906.6
- B137.2—16: Polyvinylchloride PVC Injection-moulded Gasketed Fittings for Pressure Applications**
Table P2906.6
- B137.3—16: Rigid Poly (Vinyl Chloride) (PVC) Pipe for Pressure Applications**
Table P2906.4, Table P2906.6, P3003.9.2, Table AG101.1
- B137.5—16: Cross-linked Polyethylene (PEX) Tubing Systems for Pressure Applications**
Table P2906.4, Table P2906.5, Table P2906.6, Table AG101.1
- B137.6—16: Chlorinated polyvinylchloride CPVC Pipe, Tubing and Fittings For Hot- and Cold-water Distribution Systems**
Table P2906.4, Table P2906.5, Table 2906.6, Table AG101.1

CSA—continued

- B137.9—16: Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe Systems**
Table M2101.1, Table P2906.4, P9506.12.1
- B137.10—13: Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PE-AL-PE) Composite Pressure Pipe Systems**
Table M2101.1, Table P2906.4, Table P2906.5, Table P2906.6, P2906.12.1
- B137.11—16: Polypropylene (PP-R) Pipe and Fittings for Pressure Applications**
Table P2906.4, Table P2906.5, Table P2906.6, Table AG101.1
- B137.18—13: Polyethylene of Raised Temperature (PE-RT) Tubing Systems for Pressure Applications**
Table M2101.1, Table M2105.4, Table M2105.5, Table P2906.4, Table P2906.5, Table P2906.6
- B181.1—15: Acrylonitrile-butadiene-styrene (ABS) Drain, Waste and Vent Pipe and Pipe Fittings**
Table P3002.1(1), Table P3002.1(2), Table P3002.3, P3003.3.2
- B181.2—15: Polyvinylchloride (PVC) and chlorinated polyvinylchloride (CPVC) Drain, Waste and Vent Pipe and Pipe Fittings**
Table P3002.1(1), Table P3002.1(2), P3003.9.2, P3008.3
- B181.3—15: Polyolefin and polyvinylidene (PVDF) Laboratory Drainage Systems**
Table P3002.1(1), Table P3002.1(2), Table P3002.2, Table P3002.3, P3003.11.1
- B182.2—11: PSM Type polyvinylchloride (PVC) Sewer Pipe and Fittings**
Table P3002.2, Table P3302.1
- B182.4—15: Profile polyvinylchloride (PVC) Sewer Pipe & Fittings**
Table P3002.2, Table P3302.1
- B182.6—15: Profile Polyethylene (PE) Sewer Pipe and Fittings for leak-proof Sewer Applications**
Table P3302.1
- B182.8—15: Profile Polyethylene (PE) Storm Sewer and Drainage Pipe and Fittings**
Table P3302.1
- B356—10: Water Pressure Reducing Valves for Domestic Water Supply Systems**
P2903.3.1
- B483.1—07(R2012): Drinking Water Treatment Systems**
P2909.1, P2909.2
- B602—15: Mechanical Couplings for Drain, Waste and Vent Pipe and Sewer Pipe**
P3003.3.1, P3003.4.3, P3003.5, P3003.9.1, P3003.10, P3003.12.2, P3003.13
- CSA B45.5—17/IAPMO Z124—17: Plastic Plumbing Fixtures**
Table P2701.1, P2711.1, P2711.2, P2712.1
- C22.2 No. 218.1—M89(R2011): Spas, Hot Tubs and Associated Equipment**
M2006.1
- C22.2 No. 236—15: Heating and Cooling Equipment**
M2006.1
- CSA C448 Series—16: Design and Installation of Earth Energy Systems**
Table M2105.4, Table M2105.5
- CSA O325—07: Construction Sheathing**
R503.2.1, R602.1.8, R604.1, R803.2.1
- O437-Series—93: Standards on OSB and Waferboard (Reaffirmed 2006)**
R503.2.1, R602.1.8, R604.1, R803.2.1
- CAN/CSA/C22.2 No. 60335-2-40—((2012)) 2019: ((Safety of)) Household and Similar Electrical Appliances, Part 2-40 ((†)) – Safety: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers**
((M1403.1, M1412.1, M1413.1)) M2006.1

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**
R702.6, R703.6

REFERENCED STANDARDS

DASMA

Door & Access Systems Manufacturers Association International
1300 Sumner Avenue
Cleveland, OH 44115-2851

105—2016: Test Method for Thermal Transmittance and Air Infiltration of Garage Doors and Rolling Doors
N1101.10.3

108—2017: Standard Method for Testing Garage Doors, Rolling Doors and Flexible Doors; Determination of Structural Performance Under Uniform Static Air Pressure Difference
R609.4

115—2016: Standard Method for Testing Sectional Garage Doors, Rolling Doors and Flexible Doors: Determination of Structural Performance Under Missile Impact and Cyclic Wind Pressure
R301.2.1.2

DOC

United States Department of Commerce
1401 Constitution Avenue, NW
Washington, DC 20230

PS 1—09: Structural Plywood
R404.2.1, Table R404.2.3, R503.2.1, R602.1.8, R604.1, R803.2.1

PS 2—10: Performance Standard for Wood-based Structural-use Panels
R404.2.1, Table R404.2.3, R503.2.1, R602.1.8, R604.1, R803.2.1

PS 20—05: American Softwood Lumber Standard
R404.2.1, R502.1.1, R602.1.1, R802.1.1

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
G2414.6.1

FEMA

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

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
R906.1

4880—(2015): Approval Standard for Class 1 Rating of Building Panels or Interior Finish Materials
R316.6

GA

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

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

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
R702.5

HVI

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

916—09 Airflow Test Procedure
Table N1103.6.1

IAPMO

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

CSA B45.5—17/IAPMO Z124—2017: Plastic Plumbing Fixtures
Table P2701.1, P2711.1, P2711.2, P2712.1

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
N1106.3

ANSI/RESNET/ICC 380—2016: Standard for Testing Airtightness of Building Enclosures, Airtightness of Heating and Cooling Air Distribution and Airflow of Mechanical Ventilation Systems
N1102.4.1.2

IBC—18: International Building Code®
R101.2, R202, R301.1.1, R301.1.3, R301.2.1.1, R301.2.2.1.1, R301.2.2.1.2, Table R302.1(1),
Table R302.1(2), R301.3, R302.2.1, R302.2.2, R302.3, R308.5, R320.1, R320.1.1, R321.3, R403.1.8,
Table R602.10.3(3), Table R606.12.2.1, R609.2, R802.1.5.4, R905.10.3, G2402.3

ICC A117.1—09: Accessible and Usable Buildings and Facilities
R321.3

ICC 400—17: Standard on the Design and Construction of Log Structures
R301.1.1, R502.1.4, R602.1.4, R703.1, R802.1.3, N1102.1, Table N1102.4.1.1

ICC 500—14: ICC/NSSA Standard on the Design and Construction of Storm Shelters
R323.1

ICC 600—14: Standard for Residential Construction in High-wind Regions
R301.2.1.1

ICC 900/SRCC 300—2015: Solar Thermal System Standard
M2301.2.2.2, M2301.2.3, M2301.2.6, M2301.2.7, M2301.2.8, M2301.2.10, M2301.4

ICC 901/SRCC 100—2015: Solar Thermal Collector Standard
M2301.3.1

REFERENCED STANDARDS

ICC—continued

- IEBC—18: International Existing Building Code®**
R110.2
- IECC—18: International Energy Conservation Code®**
N1101.1, N1101.13.1, N1103.8, Table N1105.5.2(1)
- IECC—06: International Energy Conservation Code®**
N1101.6
- IFC—18: International Fire Code®**
R102.7, R324.2, M2201.7, G2402.3, G2412.2
- IFGC—18: International Fuel Gas Code®**
G2401.1, G2402.3, G2423.1
- IMC—18: International Mechanical Code®**
G2402.3
- IPC—18: International Plumbing Code®**
Table R301.2(1), R903.4.1, G2402.3, P2601.1
- IPMC—18: International Property Maintenance Code®**
R102.7
- IPSDC—18: International Private Sewage Disposal Code®**
R322.1.7
- IRC—15: International Residential Code®**
Table N1106.4
- ISPSC—18: International Swimming Pool and Spa Code®**
R326.1

IEEE

Institute of Electrical and Electronic Engineers, Inc.
3 Park Avenue, 17th Floor
New York, NY 10016-5997

- 515.1—2012: IEEE Standard for the Testing, Design, Installation and Maintenance of Electrical Resistance Trace Heating for Commercial Applications**
N1103.5.1.2

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**
Table R503.2.1.1(1), Table R503.2.1.1(2), Table R602.3(2), Table R702.4.2, R703.10.1, R703.10.2
- 15874—2002: Polypropylene Plastic Piping Systems for Hot and Cold Water Installations**
Table M2101.1

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)**
Table P2903.9.4
- SP-58—09: Pipe Hangers and Supports—Materials, Design, Manufacture, Selection, Application and Installation**
G2418.2
- SP-67—11: Butterfly Valves**
Table P2903.9.4

MSS—continued

- SP-70—2011: Gray Iron Gate Valves, Flanged and Threaded Ends**
Table P2903.9.4
- SP-71—2013: Gray Iron Swing Check Valves, Flanged and Threaded Ends**
Table P2903.9.4
- SP-72—2010a: Ball Valves with Flanged or Butt-Welding Ends for General Service**
P2903.9.4
- SP-78—2011: Cast Iron Plug Valves, Flanged and Threaded Ends**
Table P2903.9.4
- SP-80—2013: Bronze Gate, Globe, Angle and Check Valves**
Table P2903.9.4
- SP-110—2010a: Ball Valves, Threaded, Socket Welded, Solder Joint, Grooved and Flared Ends**
Table P2903.9.4
- SP-122—2012: Plastic Industrial Ball Valves**
Table P2903.9.4
- SP-139—2014: Copper Alloy Gate, Globe, Angle, and Check Valves for Low Pressure/ Low Temperature Plumbing Applications**
Table P2903.9.4

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

- 13—16: Standard for Installation of Sprinkler Systems**
R302.3
- 13D—16: Standard for the Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes**
R313.1.1, R313.2.1, R324.6.2.1, P2904.1, P2904.6.1
- 13R—16: Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies**
R325.5
- 31—16: Standard for the Installation of Oil-burning Equipment**
M1701.1, M1801.3.1, M1805.3, M2201.2
- 58—17: Liquefied Petroleum Gas Code**
G2412.2, G2414.6.2
- 70—17: National Electrical Code**
R107.3, R324.3, R327.2, R327.4, E3401.1, E3401.2, E4301.1, Table E4303.2, E4304.3, E4304.4
- 72—16: National Fire Alarm and Signaling Code**
R314.1, R314.7.1
- 85—15: Boiler and Combustion Systems Hazards Code**
G2452.1
- 211—16: Standard for Chimneys, Fireplaces, Vents and Solid Fuel Burning Appliances**
R1002.5, G2427.5.5.1
- 259—18: Standard for Test Method for Potential Heat of Building Materials**
R316.5.7, R316.5.8
- 275—17: Standard Method of Fire Tests for the Evaluation of Thermal Barriers**
R316.4
- 286—15: Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth**
R302.9.4, R316.6

REFERENCED STANDARDS

NFPA—continued

- 501—17: Standard on Manufactured Housing
R202
- 720—15: Standard for the Installation of Carbon Monoxide (CO) Detectors and Warning Equipment
R315.7.1, R315.7.2
- 853—15: Standard on the Installation of Stationary Fuel Cell Power Systems
M1903.1

NFRC

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

- 100—2017: Procedure for Determining Fenestration Products *U*-Factors
N1101.10.3
- 200—2017: Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence
N1101.10.3
- 400—2017: Procedure for Determining Fenestration Product Air Leakage
N1102.4.3

NGWA

National Ground Water Association
601 Dempsey Road
Westerville, OH 43081

- ANSI/NGWA 01—14: Water Well Construction Standard
P2602.1

NSF

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

- 14—2015: Plastics Piping System Components and Related Materials
M1301.4, P2609.3, P2909.3
- 41—2011: Nonliquid Saturated Treatment Systems (Composting Toilets)
P2725.1
- 42—2015: Drinking Water Treatment Units—Anesthetic Effects
P2909.1, P2909.3
- 44—2015: Residential Cation Exchange Water Softeners
P2909.1, P2909.3
- 50—2015: Equipment for Swimming Pools, Hot Tubs and Other Recreational Water Facilities
P2911.8.1
- 53—2015: Drinking Water Treatment Units—Health Effects
P2909.1, P2909.3
- 58—2015: Reverse Osmosis Drinking Water Treatment Systems
P2909.2, P2909.3
- 61—2015: Drinking Water System Components—Health Effects
P2609.5, P2722.1, P2903.9.4, P2906.4, P2906.5, P2906.6, P2909.3
- 350—2014: Onsite Residential and Commercial Water Reuse Treatment Systems
P2911.6.1
- 358-1—2014: Polyethylene Pipe and Fittings for Water-based Ground Source “Geothermal” Heat Pump Systems
M2105.4, M2105.5, Table AG101.1
- 358-2—2012: Polypropylene Pipe and Fittings for Water-based Ground Source “Geothermal” Heat Pump Systems
Table M2105.4, M2105.5

NSF—continued

359—2012: Valves for Crosslinked Polyethylene (PEX) Water Distribution Tubing Systems
Table P2903.9.4

372—2011: Drinking Water Systems Components—Lead Content
P2906.2.1

PCA

Portland Cement Association
5420 Old Orchard Road
Skokie, IL 60077

100—12: Prescriptive Design of Exterior Concrete Walls for One- and Two-family Dwellings (Pub. No. EB241)
R301.2.2.5, R301.2.2.3.4, R404.1.3, R404.1.3.2.1, R404.1.3.2.2, R404.1.3.4, R404.1.4.2, R608.1,
R608.2, R608.5.1, R608.9.2, R608.9.3

SBCA

Structural Building Components Association
6300 Enterprise Lane
Madison, WI 53719

BCSI—2013 (Updated March 2015): Building Component Safety Information Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses
R502.11.2, R802.10.3

CFS-BCSI—2008: Cold-formed Steel Building Component Safety Information (CFSBCSI) Guide to Good Practice for Handling, Installing & Bracing of Cold-formed Steel Trusses
R505.1.3, R804.3.6

FS100—12: Standard Requirements for Wind Pressure Resistance of Foam Plastic Insulating Sheathing Used in Exterior Wall Covering Assemblies
R316.8

SMACNA

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

SMACNA—10: Fibrous Glass Duct Construction Standards (2003)
M1601.1.1, M1601.4.1

SMACNA/ANSI—2016: HVAC Duct Construction Standards—Metal and Flexible 4th Edition (ANSI) 2016
M1601.4.1

TMS

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

402—2016: Building Code Requirements for Masonry Structures
R404.1.2, R606.1, R606.1.1, R606.12.1, R606.12.2.3.1, R606.12.3.1, R703.12

403—2017: Direct Design Handbook for Masonry Structures
R606.1, R606.1.1, R606.12.1, R606.12.3.1

404—2016: Standard for the Design of Architectural Cast Stone
R606.1

602—2016: Specification for Masonry Structures
R606.2.10, R606.2.13, R703.12

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
R502.11.1, R802.10.2



UL LLC
333 Pfingsten Road
Northbrook, IL 60062

- 17—2008: Vent or Chimney Connector Dampers for Oil-fired Appliances—with revisions through September 2013**
M1802.2.2
- 55A—04: Materials for Built-up Roof Coverings**
R905.9.2
- 58—96: Steel Underground Tanks for Flammable and Combustible Liquids—with Revisions through July 1998**
M2201.1
- 80—2007: Steel Tanks for Oil-burner Fuel—with revisions through January 2014**
M2201.1
- 103—2010: Factory-built Chimneys for Residential Type and Building Heating Appliances—with revisions through July 2012**
R202, R1005.3, G2430.1
- 127—2011: Factory-built Fireplaces—with revisions through May 2015**
R1001.11, R1004.1, R1004.4, R1004.5, R1005.4, N1102.4.2, G2445.7
- 174—04: Household Electric Storage Tank Water Heaters—with revisions through April 2015**
M2005.1
- 180—2012: Liquid-level Indicating Gauges for Oil Burner Fuels and Other Combustible Liquids**
M2201.5
- 181—05: Factory-made Air Ducts and Air Connectors—with revisions through May 2003**
M1601.1.1, M1601.4.1
- 181A—2013: Closure Systems for Use with Rigid Air Ducts and Air Connectors—with revisions through December 1998**
M1601.2, M1601.4.1
- 181B—2013: Closure Systems for Use with Flexible Air Ducts and Air Connectors—with revisions through August 2003**
M1601.4.1
- 217—06: Single- and Multiple-station Smoke Alarms—with revisions through October 2015**
R314.1.1, R315.1.1
- 263—2011: Standards for Fire Test of Building Construction and Materials—with revisions through June 2015**
Table 302.1(1), Table R302.1(2), R302.2, R302.2.1, R302.2.2, R302.4.1, R302.11.1, Table R312.1(1), R606.2.2
- 268—2009: Smoke Detectors for Fire Alarm Systems**
R314.7.1, R314.7.4, R315.7.4
- 325—02: Door, Drapery, Gate, Louver and Window Operations and Systems—with revisions through May 2015**
R309.4
- 343—2008: Pumps for Oil-burning Appliances—with revisions through June 2013**
M2204.1
- 378—06: Draft Equipment—with revisions through June 12, 2014**
M1804.2.6, G2427.3.3
- 441—10: Gas Vents—with revisions through June 12, 2014**
G2426.1, G2427.6.1
- 507—99: Standard for Electric Fans**
M1503.2
- 508—99: Industrial Control Equipment—with revisions through October 2013**
M1411.3.1
- 815—11: Electrical Resistance Heat Tracing for Commercial and Industrial Applications Including Revisions through July 2015**
N1103.5.1.2
- 536—97: Flexible Metallic Hose—with revisions through December 2014**
M2202.3
- 641—2010: Type L, Low-temperature Venting Systems—with revisions through June 2013**
R202, R1003.11.5, M1804.2.4, G2426.1, G2427.6.1

UL—continued

- 651—2011: Schedule 40 and Schedule 80 Rigid PVC Conduit and Fittings—with revisions through May 2014**
G2414.6.3
- 705—04: Standard for Power Ventilators—with revisions through December 2013**
M1502.4.4
- 723—08: Standard for Test for Surface Burning Characteristics of Building Materials—with revisions through August 2013**
R202, R302.9.3, R302.9.4, R302.10.1, R302.10.2, R316.3, R316.5.9, R316.5.11, R507.2.2.2,
R703.14.3, R802.1.5, M1601.3, M1601.5.2, P2801.6
- 726—95: Oil-fired Boiler Assemblies—with revisions through October 2013**
M2001.1.1, M2006.1
- 727—06: Oil-fired Central Furnaces—with revisions through October 2013**
M1402.1
- 729—03: Oil-fired Floor Furnaces—with revisions through October 2013**
M1408.1
- 730—03: Oil-fired Wall Furnaces—with revisions through October 2013**
M1409.1
- 732—95: Oil-fired Storage Tank Water Heaters—with revisions through October 2013**
M2005.1
- 737—2011: Fireplaces Stoves—with revisions through August 2015**
M1414.1, M1901.2
- 790—04: Standard Test Methods for Fire Tests of Roof Coverings—with revisions through July 2014**
R302.2.4, R902.1
- 795—2011: Commercial-industrial Gas Heating Equipment—with revisions through November 2013**
G2442.1, G2452.1
- 834—04: Heating, Water Supply and Power Boilers—Electric—with revisions through December 2013**
M2001.1.1
- 842—07: Valves for Flammable Fluids—with revisions through May 2015**
M2204.2
- 858—05: Household Electric Ranges—with revisions through June 2015**
M1901.2, M1503.2
- 875—09: Electric Dry-bath Heaters—with revisions through December 2013**
M1902.2
- 896—93: Oil-burning Stoves—with revisions through November 2013**
M1410.1
- 923—2013: Microwave Cooking Appliances—with revisions through June 2015**
M1504.1, M1503.2, M1901.2
- 959—2010: Medium Heat Appliance Factory-built Chimneys—with revisions through June 2014**
R1005.6
- 1026—2012: Electric Household Cooking and Food Serving Appliances—with revisions through August 2015**
M1901.2
- 1040—96: Fire Test of Insulated Wall Construction—with revisions through October 2012**
R316.6
- 1042—2009: Electric Baseboard Heating Equipment—with revisions through September 2014**
M1405.1
- 1256—02: Fire Test of Roof Deck Construction—with revisions through July 2013**
R906.1
- 1261—01: Electric Water Heaters for Pools and Tubs—with revisions through July 2012**
M2006.1
- 1479—03: Fire Tests of Through-Penetration Firestops—with revisions through June 2015**
R302.4.1.2
- 1482—2011: Solid-Fuel-type Room Heaters—with revisions through August 2015**
R1002.2, R1002.5, M1410.1

REFERENCED STANDARDS

UL—continued

- 1563—2009: Standard for Electric Spas, Hot Tubs and Associated Equipment—with revisions through March 2015**
M2006.1
- 1618—09: Wall Protectors, Floor Protectors, and Hearth Extensions—with revisions through October 2015**
R1004.2, M1410.2
- 1693—2010: Electric Radiant Heating Panels and Heating Panel Sets—with revisions through October 2011**
M1406.1
- 1703—02: Flat-plate Photovoltaic Modules and Panels—with revisions through October 2015**
R324.3.1, R902.4, R905.16.4, R907.17.5
- 1715—97: Fire Test of Interior Finish Material—with revisions through January 2013**
R316.6
- 1738—2010: Venting Systems for Gas-burning Appliances, Categories II, III and IV—with revisions through November 2014**
G2426.1, G2427.4.1, G2427.4.1.1, G2427.4.2
- 1741—2010: Inverters, Converters, Controllers and Interconnection System Equipment with Distributed Energy Resources—with revisions through January 2015**
R324.3.1, R327.4
- 1777—07: Chimney Liners—with revisions through October 2015**
R1003.11.1, R1003.18, G2425.12, G2425.15.4, M1801.3.4, G2427.5.1, G2427.5.2
- 1897—12: Uplift Tests for Roof Covering Systems—with revisions through September 2015**
R905.17.7
- 1995—2011: Heating and Cooling Equipment—with revisions through July 2015**
M1402.1, M1403.1, M1407.1, M1412.1, M1413.1, M2006.1
- 1996—2009: Electric Duct Heaters—with revisions through June 2014**
M1402.1, M1407.1
- 2034—08: Standard for Single- and Multiple-station Carbon Monoxide Alarms—with revisions through March 2015**
R314.1.1, R315.1.1
- 2075—2013: Standard for Gas and Vapor Detectors and Sensors**
R314.7.4, R315.7.1, R315.7.4
- 2158A—2010: Outline of Investigation for Clothes Dryer Transition Duct**
M1502.4.3, G2439.7.3
- 2523—09: Standard for Solid Fuel-fired Hydronic Heating Appliances, Water Heaters and Boilers—with revisions through February 2013**
M2005.1, M2001.1.1
- 2703—14: Mounting Systems, Mounting Devices, Clamping/Retention Devices and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels**
R902.4
- 9540—14: Outline of Investigation for Energy Storage Systems and Equipment**
R327.2, R327.4
- UL/CSA/ANCE 60335-2-40—((2012)) 2019: ((Standard for)) Household and Similar Electrical Appliances ((s)) – Safety: Part 2-40: Particular Requirements for ((Motor compressors)) Electrical Heat Pumps, Air Conditioners and Dehumidifiers**
M1403.1, M1412.1, M1413.1

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

US-FTC

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

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

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
R308.6.9, R609.3, N1102.4.3

I.S. 11—13: Industry Standard Analytical Method for Design Pressure (DP) Ratings of Fenestration Products
R308.6.9.1, R609.3.1

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

