

Part IX—Referenced Standards

CHAPTER ((44)) 45 REFERENCED STANDARDS

User notes:

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)) 45 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
1900 E. Golf Road, Suite 1250
Schaumburg, IL 60173

450—20: Performance Rating Method for Mulled Combination Assemblies, Composite Units, and Other Mulled Fenestration Systems

R609.8

506—16: Voluntary Specifications for Impact and Cycle Testing of Fenestration Products

R609.6.1

711—20: 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—19: Voluntary Specification for Liquid-Applied Flashing Used to Create a Water-Resistive Seal around Exterior Wall Openings in Buildings

R703.4

AAMA/NSA 2100—19: Specifications for Sunrooms

R301.2.1.1.1

AAMA/WDMA/CSA 101/IS.2/A440—17: North American Fenestration Standard/Specification for Windows, Doors, and Skylights

N1102.4.3, R308.6.9, R609.3

ACCA

Air Conditioning Contractors of America
1330 Braddock Place, Suite 350
Alexandria, VA 22314

ANSI/ACCA 1 Manual D—2016: Residential Duct Systems

Table R301.2(1), M1601.1, M1602.2

ANSI/ACCA 2 Manual J—2016: Residential Load Calculation

N1103.7, M1401.3

ANSI/ACCA 3 Manual S—2014: Residential Equipment Selection

N1103.7, M1401.3

ACI

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

318—19: Building Code Requirements for Structural Concrete

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

332—20: Residential Code Requirements for Structural Concrete

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

AHAM

Association of Home Appliance Manufacturers
111 19th St NW, #402
Washington, D.C. 20036

HRH-2-2019: Household Range Hoods

M1505.4.4.2

Certified Range Hood Directory

M1505.4.4.3.1

AISI

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

AISI S100—16 (2020) w/S2—20: North American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition (Reaffirmed 2020), with Supplement 2, 2020 Edition

R608.9.2, R608.9.3

AISI S220—20: North American Standard for Cold-Formed Steel Nonstructural Framing, 2020

R702.3.3

AISI S230—19: Standard for Cold-Formed Steel Framing—Prescriptive Method for One- and Two-Family Dwellings, 2019

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, Figure 608.9(11),
R608.9.2, R608.9.3, R608.10

AISI S240—20: North American Standard for Cold-Formed Steel Structural Framing, 2020

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—16: Laboratory Methods of Testing Fans for Aerodynamic Performance Rating

Table M1504.2, M1505.3

ANCE

Association of Standardization and Certification
Av. Lázaro Cárdenas No. 869
Fraccion 3
Col. Nva. Industrial Vallejo
Deleg. Gustavo A. Madero
Mexico, D.F.

NMX-J-521/2-40-ANCE—~~((2014))~~ 2019/CAN/CSA-22.2 No. 60335-2-40—~~((12))~~ 19/UL 60335-2-40-2019: ~~((Safety of))~~ Household and Similar Electric Appliances ~~((s))~~ = Safety = Part 2-40: Particular Requirements for Electric 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—17: Installation of Ceramic Tile in the Wet-set Method, with Portland Cement Mortar**
R702.4.1
- A108.1B—2017: Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex Portland Cement Mortar**
R702.4.1
- A108.4—09: Installation of Ceramic Tile with Organic Adhesives or Water-cleanable Tile-setting Epoxy Adhesive**
R702.4.1
- A108.5—20: Installation of Ceramic Tile with Dry-set Portland Cement Mortar or Latex-Portland Cement Mortar**
R702.4.1
- A108.6—99 (Reaffirmed 2019): Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy**
R702.4.1
- A108.11—10: Interior Installation of Cementitious Backer Units**
R702.4.1
- A118.1—18: American National Standard Specifications for Dry-set Portland Cement Mortar**
R702.4.1
- 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—18: American National Standard Specifications for Modified Dry-set Cement Mortar**
R606.2.11
- A118.10—14: Specification for Load-bearing, Bonded, Waterproof Membranes for Thin-set Ceramic Tile and Dimension Stone Installation**
P2709.2, P2709.2.4
- A136.1—20: American National Standard Specifications for Organic Adhesives for Installation of Ceramic Tile**
R702.4.1
- A137.1—19: American National Standard Specifications for Ceramic Tile**
R702.4.1
- ANSI 117—2020: Standard Specification for Structural Glued Laminated Timber of Softwood Species**
R502.1.3, R602.1.3, R802.1.3
- ANSI/CSA FC 1—2014: Fuel Cell Technologies—Part 3-100: Stationary Fuel Cell Power Systems—Safety**
M1903.1
- ANSI LC 1—2018/CSA 6.26—2016: Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST)**
G2414.5.4, G2411.3, ((G2414.4.4;)) G2415.5, 403.5.5
- ANSI LC 4—2012/CSA 6.32—2012: Press-Connect Metallic Fittings for Use in Fuel Gas Distribution Systems**
G2414.9.1, G2414.9.2, G2414.9.3, G2415.5
- ANSI Z21.1—2016/CSA 1.1—2016: Household Cooking Gas Appliances**
M1503.2, G2447.1
- ANSI Z21.5.1—2017/CSA 7.1—2017: Gas Clothes Dryers—Volume I—Type 1 Clothes Dryers**
G2438.1
- ANSI Z21.8—1994 (R2017): Installation of Domestic Gas Conversion Burners**
G2443.1
- ANSI Z21.10.1—2017/CSA 4.1—2017: 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—2017: Gas Water Heaters—Volume III—Storage Water Heaters with Input Ratings above 75,000 Btu per hour, Circulating and Instantaneous**
G2448.1

REFERENCED STANDARDS

ANSI—continued

- ANSI Z21.11.2—2016: Gas-Fired Room Heaters, Volume II, Unvented Room Heaters
G2445.1
- ANSI Z21.13—2017/CSA 4.9—2017: Gas-Fired Low-pressure Steam and Hot Water Boilers
G2452.1
- ANSI Z21.15—2009/CSA 9.1—2009 (2014): Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves
Table G2420.1.1
- ANSI Z21.22—2015: Relief Valves for Hot Water Supply Systems
P2804.2, P2804.7
- ANSI Z21.24—2015/CSA 6.10—2015: Connectors for Gas Appliances
G2422.1, G2422.2
- ANSI 40.11—1996 (R2017)/CGA 2.91—M96 (R2017): Gas-Fired, Heat-Activated Air-Conditioning and Heat Pump Appliances
G2449.1
- ANSI Z21.40.2—1996 (R2017)/CGA 2.92—M96 (R2017): Gas-Fired Work Activated Air-Conditioning and Heat Pump Appliances (Internal Combustion)
G2449.1
- ANSI Z21.41—2014/CSA 6.9—2014: Quick Disconnect Devices for Use with Gas Fuel Appliances
G2422.1
- ANSI Z21.42—2013: Gas-Fired Illuminating Appliances
G2450.1
- ANSI Z21.47—2016/CSA 2.3—2016: Gas-Fired Central Furnaces
G2442.1
- ANSI Z21.50—2016/CSA 2.22—2016: Vented Decorative Gas Fireplaces
G2434.1
- ANSI Z21.54—2014/CSA 8.4—2014: Gas Hose Connectors For Portable Outdoor Gas-Fired Appliances
G2422.1
- ANSI Z21.56—2017/CSA 4.7—2017: Gas-Fired Pool Heaters
G2441.1
- ANSI Z21.58—2018/CSA 1.6—2018: Outdoor Cooking Gas Appliances
G2447.1
- ANSI Z21.60—2017/CSA 2.26—2017: Decorative Gas Appliances for Installation in Solid-Fuel-Burning Fireplaces
G2432.1
- ANSI Z21.69—2015/CSA 6.16—2015: Connectors for Moveable Gas Appliances
G2422.1.5
- ANSI Z21.75—2016/CSA 6.27—2016: Connectors for Outdoor Gas Appliances and Manufactured Homes
G2422.1
- ANSI Z21.80—2011/CSA 6.22—2011 (R2016): Line Pressure Regulators
G2421.1
- ANSI Z21.84—2017: Standard for Manually Lighted, Natural Gas, Decorative Gas Appliances for Installation in Solid-Fuel-Burning Appliances
G2432.1, G2432.2
- ANSI Z21.86—2016/CSA 2.32—2016: Vented Gas-Fired Space Heating Appliances
G2436.1, G2437.1, G2446.1
- ANSI Z21.88—2016/CSA 2.33—2016: Vented Gas Fireplace Heaters
G2435.1
- ANSI Z21.90—2015/CSA 6.24—2015: Gas Convenience Outlets and Optional Enclosures
G2422.1
- ANSI Z21.91—2017: Ventless Firebox Enclosures for Gas-Fired Unvented Decorative Room Heaters
G2445.7.1
- ANSI Z21.93—2017/CSA 6.30—2017: Excess Flow Valves For Natural Gas and Propane Gas With Pressures Up To 5 Psig
G2421.4

ANSI—continued

ANSI Z21.97—2017/CSA 2.41—2017: Outdoor Decorative Gas Appliances
G2453.1

Z83.6—90 (R1998): Gas-fired Infrared Heaters
G2451.1

ANSI Z83.8—2016/CSA 2.6—2016: Gas Unit Heater, Gas Packaged Heaters, Gas Utility Heaters And Gas-Fired Duct Furnaces
G2444.1

ANSI Z83.19—2017/CSA 2.35—2017: Gas-Fired High-Intensity Infrared Heaters
G2451.1

ANSI Z83.20—2016/CSA 2.34—2016: Gas-Fired Tubular and Low-Intensity Infrared Heaters
G2451.1

Z97.1—2017: Safety Glazing Materials Used in Buildings—Safety Performance Specifications and Methods of Test
R308.1.1, R308.3.1

APA

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

ANSI/A190.1—2017: Structural Glued-laminated Timber
R502.1.3, R602.1.3, R802.1.2

ANSI/APA PRG 320—2019: Standard for Performance-rated Cross Laminated Timber
R502.1.6, R602.1.6, R802.1.6

ANSI/APA PRP 210—2019: Standard for Performance-rated Engineered Wood Siding
R604.1, Table R703.3(1), R703.3.4

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—2018: Standard for Performance-Rated Structural Insulated Panels in Wall Applications
R602.1.11, R610.3, R610.4

APA E30—19: Engineered Wood Construction Guide
Table R503.2.1.1(1), R503.2.2, R803.2.2, R803.2.3

APSP

Pool & Hot Tub Alliance (formerly the Association of Pool & Spa Professionals)
211 Eisenhower Avenue, Suite 500
Alexander, VA 22314

ANSI/APSP/ICC 14—2019: American National Standard for Portable Electric Spa Energy Efficiency
N1103.11

ANSI/APSP/ICC 15a—2011: American National Standard for Residential Swimming Pool and Spas—Includes Addenda A
Approved January 9, 2013
N1103.12

ASCE/SEI

American Society of Civil Engineers
Structural Engineering Institute
Reston, VA 20191-4400

7—16 with Supplement 1: Minimum Design Loads and Associated Criteria for Buildings and Other Structures
Table R608.7(1A), Table R608.7(1B), Table R608.7(1C), 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), R608.9.2, R608.9.3, R609.2, R609.6.2

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
180 Technology Parkway NW
Peachtree Corners, GA 30092

ASHRAE 34—2019: Designation and Safety Classification of Refrigerants
M1411.1

ASHRAE 62.2-2019: Ventilation and Acceptable Indoor Air Quality in Residential Buildings
M1505.1

ASHRAE 193—2010(RA 2014): Method of Test for Determining Airtightness of HVAC Equipment
N1103.3.4.1

ASHRAE—2001: 2001 ASHRAE Handbook of Fundamentals
Table N1105.4.2(1)

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

ASME

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

A18.1—2020: Safety Standard for Platforms and Stairway Chair Lifts
R321.2

A112.1.2—2012(R2017): Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water Connected Receptors)
P2717.1, Table P2902.3, P2902.3.1

A112.1.3—2000 (R2019): Air Gap Fittings for Fixtures, Appliances and Appurtenances
Table P2701.1, P2717.1, Table P2902.3, P2902.3.1

A112.3.1—2007(R2017): 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—2018/CSA B45.9—2018: Macerating Toilet Systems and Related Components
Table P2701.1, P3007.5

A112.4.1—2019: Water Heater Relief Valve Drain Tubes
P2804.6.1

A112.4.3—1999(R2020): Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System
P3003.14

A112.4.4—2017: Plastic Push-Fit Drain, Waste, and Vent (DWV) Fittings
Table P3002.3, P3003.9.4

A112.4.14—2019/CSA B125.14—19: Manually Operated Valves for Use in Plumbing Systems
Table P2903.9.4

A112.6.2—2017: Framing-affixed Supports for Off-the-floor Water Closets with Concealed Tanks
Table P2701.1, P2702.4

A112.6.3—2019: Floor and Trench Drains
Table P2701.1

A112.14.1—03(2017): Backwater Valves
P3008.3

A112.18.1—2018/CSA B125.1—2018: Plumbing Supply Fittings
Table P2701.1, P2708.5, P2722.1, P2722.3, P2902.2, Table P2903.9.4

A112.18.2—2020/CSA B125.2—2020: Plumbing Waste Fittings
Table P2701.1, P2702.2

A112.18.3M—2002(R2017): Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings
P2708.5, P2722.3

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

A112.19.1—2018/CSA B45.2—2018: Enameled Cast-iron and Enameled Steel Plumbing Fixtures
Table P2701.1, P2711.1

ASME—continued

- A112.19.2—2018/CSA B45.1—2018: Ceramic Plumbing Fixtures**
Table P2701.1, P2705.1, P2711.1, P2712.1, P2712.2, P2712.9
- A112.19.3—2017/CSA B45.4—2017: 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—2012/CSA B45.10—2012(2017): Hydromassage Bathtub Systems**
Table P2701.1
- A112.19.12—2014(R2019): 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(R2018): Six-Liter Water Closets Equipped with Dual Flushing Device**
P2712.1
- A112.19.15—2012(R2017): Bathtub/Whirlpool Bathtubs with Pressure-sealed Doors**
Table P2701.1, P2713.2
- A112.36.2M—1991(R2017): Cleanouts**
P3005.2.10.2
- ASME A17.1—2019/CSA B44—2019: Safety Code for Elevators and Escalators**
R321.1
- ASME A112.4.2—2015/CSA B45.16—2015(R2020): Water-closet Personal Hygiene Devices**
P2722.5
- ASSE 1002—2020/ASME A112.1002—2020/CSA B125.12—20: Anti-Siphon Fill Valves**
Table P2701.1, Table P2902.3, P2902.4.1
- ASSE 1016—2017/ASME A112.1016—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—2020/ASME A112.1070—2020: Performance Requirements for Water-temperature-limiting Devices**
P2713.3, P2721.2
- B1.20.1—2013(R2018): 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—2018: Factory-made, Wrought-steel Buttwelding Fittings**
Table P2906.6
- 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—2018: Cast Alloy Threaded Fittings: Classes 125 and 250**
Table P2906.6, Table P3002.3
- B16.18—2018: Cast-copper-alloy Solder Joint Pressure Fittings**
Table P2906.6, Table P3002.3
- B16.22—2018: 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—2018: 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

REFERENCED STANDARDS

ASME—continued

- B16.29—2017: Wrought-copper and Wrought-copper-alloy Solder Joint Drainage Fittings (DWV)**
Table P3002.3
- B16.33—2012(R2017): 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—2017: Valves—Flanged, Threaded and Welding End**
Table P2903.9.4
- B16.44—2012(R2017): Manually Operated Metallic Gas Valves for Use in Above-ground Piping Systems up to 5 psi**
Table G2420.1.1
- B16.51—2018: Copper and Copper Alloy Press-Connect Pressure Fittings**
Table M2101.1, M2103.3, Table P2906.6
- B36.10M—2018: Welded and Seamless Wrought-steel Pipe**
G2414.4.2
- BPVC—2019: ASME Boiler and Pressure Vessel Code (Sections I, II, IV, V, VI and VIII)**
M2001.1.1, G2452.1
- CSD-1—2018: Controls and Safety Devices for Automatically Fired Boilers**
M2001.1.1, G2452.1

ASSE

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

- 1001—2017: Performance Requirements for Atmospheric-type Vacuum Breakers**
Table P2902.3, P2902.3.2
- 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
- 1011—2017: Performance Requirements for Hose Connection Vacuum Breakers**
Table P2902.3, P2902.3.2
- 1012—2009: Performance Requirements for Backflow Preventers with an Intermediate Atmospheric Vent**
Table P2902.3, P2902.3.3, P2902.5.1, P2902.5.5.3
- 1013—2011: 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—2011: Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies**
Table P2902.3, P2902.3.6
- 1017—2009: Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems**
P2724.1, P2802.1, P2803.2
- 1018—2001: Performance Requirements for Trap Seal Primer Valves—Potable Water Supplied**
P3201.2.1.1, P3201.2.1.2
- 1019—2011(R2016): Performance Requirements for Wall Hydrant with Backflow Protection and Freeze Resistance**
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—1979: Performance Requirements for Hot Water Dispensers, Household-storage-type—Electrical**
Table P2701.1
- 1024—2017: Performance Requirements for Dual Check Backflow Preventers**
Table P2902.3, P2902.3.7
- 1035—2008: Performance Requirements for Laboratory Faucet Backflow Preventers**
Table P2902.3, P2902.3.2

ASSE—continued

- 1044—2015: Performance Requirements for Trap Seal Primer Drainage Types and Electric Design Types**
P3201.2.1.3
- 1047—2011: Performance Requirements for Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies**
Table P2902.3, P2902.3.5
- 1048—2011: 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 Sanitary 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 Breaker Assemblies**
Table P2902.3, P2902.3.4
- 1060—2017: 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—2017: Performance Requirements for Temperature-actuated, Flow Reduction (TAFR) Valves for Individual Supply Fittings**
Table P2701.1, P2724.2
- 1066—1997: Performance Requirements for Individual Pressure Balancing In-line Valves for Individual Fixture Fittings**
P2722.4
- 1072—2007: Performance Requirements for Barrier-type Floor Drain Trap Seal Protection Devices**
P3201.2.1.4
- 1081—2014: Performance Requirements for Backflow Preventers with Integral Pressure Reducing Boiler Feed Valve and Intermediate Atmospheric Vent Style for Domestic and Light Commercial Water Distribution Systems**
Table P2902.3, P2902.3.3
- ASSE 1002—2020/ASME A112.1002—2020/CSA B125.12—20: Anti-Siphon Fill Valves for Water Closet Tanks**
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 1037—2015/ASME A112.1037—2015/CSA B125.37—15: Performance Requirements for Pressurized Flushing Devices for Plumbing Fixtures**
Table P2701.1
- ASSE 1070—2020/ASME A112.1070—2020/ CSA B125.70—20: Performance Requirements for Water-temperature-limiting Devices**
P2713.3, P2721.2, P2724.1

ASTM

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

- A36/A36M—14: Specification for Carbon Structural Steel**
R608.5.2.2
- A53/A53M—2018: 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—2017: 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—2018: Specification for Seamless Carbon Steel Pipe for High-temperature Service**
Table M2101.1, G2414.4.2
- A123/A123M—2017: Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products**
Table 507.2.3

REFERENCED STANDARDS

ASTM—continued

- A126—04(2014): Gray Iron Castings for Valves, Flanges and Pipe Fittings**
Table P2903.9.4
- A153/A153M—2016A: 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—17: 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—2010(2018): Specification for Copper Brazed Steel Tubing**
Table M2101.1, G2414.5.1
- A268/A268M—2010(16): Standard Specification for Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service**
G2414.5.2
- A269/A269M—2015A: Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service**
G2414.5.2
- A307—2014E1: Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength**
Table R507.2.3, R608.5.2.2
- A312/A312M—2018: 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
- A653/A653M—2017: 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—2016: 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—2016E1: 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—2016: 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—2018: 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—2017A: Standard Specification for General Requirements for Steel Sheet, Metallic-coated by the Hot-dip Process**
Table R905.10.3(1)
- A996M—2016: Specifications for Rail-steel and Axle-steel Deformed Bars for Concrete Reinforcement**
R403.1.3.5.1, Table R404.1.2(9), R404.1.3.3.7.1, R608.5.2.1, Table R608.5.4(2)

ASTM—continued

- 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—2016: 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/B135M—2017: 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/B251M—2017: 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
- B280—2018: Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service**
G2414.4.3
- B302—2017: 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
- B695—2004(2016): Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel**
R317.3.1, R317.3.3, Table R507.2.3
- B813—2016: 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—2016: Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings**
M2103.3, P2906.15, P3003.6.3
- C4—2004(2018): Specification for Clay Drain Tile and Perforated Clay Drain Tile**
Table P3302.1
- C5—2018: 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—1998(2018): 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—2018: Specification for Concrete Aggregates**
R403.4.1

REFERENCED STANDARDS

ASTM—continued

- C34—2017: Specification for Structural Clay Load-bearing Wall Tile**
Table R301.2(1), R606.2.2
- C35/C35M—01(2014): Specification for Inorganic Aggregates for Use in Gypsum Plaster**
R702.2.1
- C55—2017: Specification for Concrete Building Brick**
R202, Table R301.2(1), R606.2.1
- C56—2013(2017): 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—2017: Standard Specification for Building Brick (Solid Masonry Units Made from Clay or Shale)**
R202, Table R301.2(1), R606.2.2
- C73—2017: Specification for Calcium Silicate Face Brick (Sand Lime Brick)**
R202, Table R301.2(1), R606.2.1
- C76—2018A: Specification for Reinforced Concrete Culvert, Storm Drain and Sewer Pipe**
Table P3002.2
- C90—2016A: Specification for Load-bearing Concrete Masonry Units**
Table R301.2(1), 606.2.1
- C91/C91M—2018: Specification for Masonry Cement**
R702.2.2, R703.7.2
- C94/C94M—2017A: Standard Specification for Ready-mixed Concrete**
R404.1.3.3.2, R608.5.1.2
- C126—2017: Standard Specification for Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units**
R606.2.2
- C129—2017: Specification for Nonload-bearing Concrete Masonry Units**
Table R301.2(1)
- C143/C143M—15A: 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)
- C150/C150M—2018: Specification for Portland Cement**
R608.5.1.1, R702.7.2
- C199—1984(2016): Test Method for Pier Test for Refractory Mortar**
R1001.5, R1001.8, R1003.12
- C207—2018: Specification for Hydrated Lime for Masonry Purposes**
Table R606.2.8
- C208—2012(2017)E1: Specification for Cellulosic Fiber Insulating Board**
R602.1.10, Table R602.3(1), Table R906.2
- C212—2017: Standard Specification for Structural Clay Facing Tile**
R606.2.2
- C216—2017A: 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—2007(2016): 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—2017: Test Method for Hot-surface Performance of High-temperature Thermal Insulation**
M1601.3

ASTM—continued

- C425—2004(2018): Specification for Compression Joints for Vitrified Clay Pipe and Fittings**
Table P3002.2, P3003.10, P3003.13
- C443—2012(2017): Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets**
P3003.5, P3003.13
- C475/C475M—2017: Specification for Joint Compound and Joint Tape for Finishing Gypsum Board**
R702.3.1
- C476—2018: Specification for Grout for Masonry**
R606.2.12
- C503M—2015: 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—2017E1: Standard Specification for Cellular Glass Thermal Insulation**
Table R906.2
- C557—2003(2017): 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
- C568M—2015: Standard Specification for Limestone Dimension Stone**
R606.2.4
- C578—2018: 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—2004(2018): Specification for Gypsum Veneer Plaster**
R702.2.1
- C595/C595M—2018: Specification for Blended Hydraulic Cements**
R608.5.1.1, R702.2.2, R703.7.2
- C615/C615M—2018E1: Standard Specification for Granite Dimension Stone**
R606.2.4
- C616/C616M—2015: Standard Specification for Quartz-based Dimension Stone**
R606.2.4
- C629/C629M—2015: Standard Specification for Slate Dimension Stone**
R606.2.4
- C631—09(2014): Specification for Bonding Compounds for Interior Gypsum Plastering**
R702.2.1
- C645—2018: Specification for Nonstructural Steel Framing Members**
R702.3.3
- C652—2017A: Specification for Hollow Brick (Hollow Masonry Units Made from Clay or Shale)**
R202, Table R301.2(1), R606.2.2
- C685/C685M—2017: Specification for Concrete Made by Volumetric Batching and Continuous Mixing**
R404.1.3.3.2, R608.5.1.2
- C700—2018: Specification for Vitrified Clay Pipe, Extra Strength, Standard Strength and Perforated**
Table P3002.2, Table P3002.3, Table P3302.1
- C726—2017: Standard Specification for Mineral Wool Roof Insulation Board**
Table R906.2
- C728—2017A: Standard Specification for Perlite Thermal Insulation Board**
Table R906.2
- C744—2016: Standard Specification for Prefaced Concrete and Calcium Silicate Masonry Units**
R606.2.1
- C836/C836M—2018: Specification for High Solids Content, Cold Liquid-applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course**
R905.15.2

REFERENCED STANDARDS

ASTM—continued

- C841—2003(2018): 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—2017: 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—2018: 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—2018: Standard Specification for Elastomeric Joint Sealants**
R406.4.1
- C926—2018B: 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—2018: Specification for Welded Wire Lath**
R702.2.1, R702.2.2
- C946—2018: Standard Practice for Construction of Dry-Stacked, Surface-Bonded Walls**
R606.2.9
- C954—2018: 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—2017: Specification for High-solids Content, Cold Liquid-applied Elastomeric Waterproofing Membrane with Integral Wearing Surface**
R905.15.2
- C1002—2018: 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—2018: Specification for Woven Wire Plaster Base**
R702.2.1, R702.2.2
- C1047—2014a: Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base**
R702.2.1, R702.2.2, R702.3.1
- C1063—2018B: 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—2018: Standard Specification for Thin Veneer Brick Units Made from Clay or Shale**
R606.2.2
- C1107/C1107M—2017: 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/C1157M—2017: Standard Performance Specification for Hydraulic Cement**
R608.5.1.1, R703.7.2
- C1167—2011(2017): Specification for Clay Roof Tiles**
R905.3.4
- C1173—2018: Specification for Flexible Transition Couplings for Underground Piping Systems**
P3003.3.1, P3003.5, P3003.9.1, P3003.10, P3003.12.2, P3003.13

ASTM—continued

- C1177/C1177M—2017: Specification for Glass Mat Gypsum Substrate for Use as Sheathing**
R702.3.1, Table 906.2
- C1178/C1178M—2018: Specification for Glass Mat Water-resistant Gypsum Backing Panel**
R702.3.1, R702.3.7, Table R702.4.2
- C1186—2008(2016): Specification for Flat Fiber Cement Sheets**
R703.10.1, R703.10.2
- C1261—2013(2017)E1: Specification for Firebox Brick for Residential Fireplaces**
R1001.5, R1001.8
- C1277—2018: Specification for Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings**
P3003.4.3
- C1278/C1278M—2017: Specification for Fiber-reinforced Gypsum Panels**
R702.3.1, R702.3.7, Table R702.4.2, Table R906.2
- C1280—13a: Specification for Application of Exterior Gypsum Panel Products for Use as Sheathing**
R602.3(1)
- C1283—2015: Practice for Installing Clay Flue Lining**
R1003.9.1, R1003.12
- C1288—2017: 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—2018: 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, Table R906.2
- C1325—2018: Standard Specification for Fiber-mat Reinforced Cementitious 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—2017: Standard Specification for Architectural Cast Stone**
R606.2.5
- C1396/C1396M—2017: Specification for Gypsum Board**
Table R602.3(1), R702.2.1, R702.2.2, R702.3.1, R702.3.7
- C1405—2016: Standard Specification for Glazed Brick (Single Fired, Brick Units)**
R606.2.2
- C1440—2017: Specification for Thermoplastic Elastomeric (TPE) Gasket Materials for Drain, Waste and Vent (DWV), Sewer, Sanitary and Storm Plumbing Systems**
P3003.13
- C1460—2017: Specification for Shielded Transition Couplings for Use with Dissimilar DWV Pipe and Fittings Above Ground**
P3003.13
- C1461—2008(2017): 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—2003(2016): Specification for Concrete Roof Tile**
R905.3.5
- C1513—2018: 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—2018: Specification for Heavy Duty Shielded Couplings Joining Hubless Cast-iron Soil Pipe and Fittings**
P3003.4.3
- C1634—2017: Standard Specification for Concrete Facing Brick**
R606.2.1
- C1658/C1658M—2018: Standard Specification for Glass Mat Gypsum Panels**
R702.3.1

REFERENCED STANDARDS

ASTM—continued

- 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—2018: Standard Specification for Adhered Manufactured Stone Masonry Veneer Units**
R606.2.6
- C1691—2011(2017): Standard Specification for Unreinforced Autoclaved Aerated Concrete (AAC) Masonry Units**
R606.2.3
- C1693—2011(2017): Standard Specification for Autoclaved Aerated Concrete (AAC)**
R606.2.3
- C1766—2015: Standard Specification for Factory-Laminated Gypsum Panel Products**
R702.3.1
- D41/D41M—2011(2016): Specification for Asphalt Primer Used in Roofing, Dampproofing and Waterproofing**
Table R905.9.2, Table R905.11.2
- D43/D43M—2000(20118): Specification for Coal Tar Primer Used in Roofing, Dampproofing and Waterproofing**
Table R905.9.2
- D226/D226M—2017: 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—2003(2018): Specification for Coal Tar Saturated (Organic Felt) Used in Roofing and Waterproofing**
Table R905.9.2
- D312/D312M—2016M: 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—2017(2018): 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—2016: 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
- 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—15E1: Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80 and 120**
Table P2906.4
- D1863/D1863M—2005(2018): Specification for Mineral Aggregate Used on Built-up Roofs**
Table R905.9.2
- D1869—15: Specification for Rubber Rings for Fiber-Reinforced Cement Pipe**
P2906.18, P3003.13
- D1970/D1970M—2017A: Specification for Self-adhering Polymer Modified Bitumen Sheet Materials Used as Steep Roof Underlayment for Ice Dam Protection**
R905.1.1, R905.2.8.2, R905.11.2.1
- D2104—03: Specification for Polyethylene (PE) Plastic Pipe, Schedule 40**
Table P2906.4
- D2178/D2178M—15A: Specification for Asphalt Glass Felt Used in Roofing and Waterproofing**
Table R905.9.2
- D2235—2004(2016): Specification for Solvent Cement for Acrylonitrile-butadiene-styrene (ABS) Plastic Pipe and Fittings**
P2906.9.1.1, P3003.3.2

ASTM—continued

- D2239—12A: Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Controlled Inside Diameter**
Table P2906.4
- D2241—15: Specification for Poly (Vinyl Chloride) (PVC) Pressure-rated Pipe (SDR-Series)**
Table P2906.4
- D2282—99(2005): Specification for Acrylonitrile-butadiene-styrene (ABS) Plastic Pipe (SDR-PR)**
Table P2906.4
- D2412—2011(2018): 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—20: 17: 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—2018A: Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing and Fittings**
Table M2101.1, G2414.6, G2414.6.1, G2414.11, G2415.17.2
- D2564—2012(2018): 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—2007(2015): Standard Practice for Heat Fusion Joining of Polyolefin Pipe Fittings**
M2105.11.1, P2906.3.1, P2906.20.2, P3003.12.1
- D2661—14E1: 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
- D2672—14: Specification for Joints for IPS PVC Pipe Using Solvent Cement**
Table P2906.4
- D2680—01(2014): Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) and Poly(Vinyl Chloride) (PVC) Composite Sewer Piping**
Table P3002.2
- D2683—14: Specification for Socket-type Polyethylene Fittings for Outside Diameter-controlled Polyethylene Pipe and Tubing**
Table M2105.5, M2105.11.1, P2906.20.2, P3002.3, P3010.5
- D2729—2017: Specification for Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings**
P3009.11, Table P3302.1
- D2737—2012A: Specification for Polyethylene (PE) Plastic Tubing**
Table P2906.4
- D2751—05: Specification for Acrylonitrile-butadiene-styrene (ABS) Sewer Pipe and Fittings**
Table P3002.2, Table P3002.3
- D2822/D2822M—2005(2011): 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—2018: Standard Specification for Aluminum-pigmented Asphalt Roof Coatings, Nonfibered and Fibered without Asbestos**
Table R905.9.2, Table R905.11.2

REFERENCED STANDARDS

ASTM—continued

D2846/D2846M—2017BE1: 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

D2855—2015: Standard Practice for Making Solvent-cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings
P3003.9.2

D2898—2010(2017): 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

D3019/D3019—2017: Specification for Lap Cement Used with Asphalt Roll Roofing, Nonfibered, Asbestos Fibered and Nonasbestos Fibered

Table R905.9.2, Table R905.11.2

D3034—2016: Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings

Table P3002.2, Table P3002.3

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

Table M2105.4

D3138—04(2016): 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—2016A: 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—2016: 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, P2906.20.2

D3309—96a(2002): Specification for Polybutylene (PB) Plastic Hot- and Cold-water Distribution System

Table M2101.1

D3311—2017: 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—2016: Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules

R905.2.4

D3468/D3468M—99(2013)E1: Specification for Liquid-applied Neoprene and Chlorosulfanated Polyethylene Used in Roofing and Waterproofing

R905.15.2

D3679—2017: Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding

R703.11

D3737—2018E1: 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—2017: Specification for Chlorinated Polyethylene (CPE) Sheeting for Concealed Water Containment Membrane

P2709.2, P2709.2.2

D4318—2017E1: Test Methods for Liquid Limit, Plastic Limit and Plasticity Index of Soils

R403.1.8.1

ASTM—continued

- D4434/D4434M—2015: Specification for Poly (Vinyl Chloride) Sheet Roofing**
R905.13.2
- D4479/D4479M—2007(2018): Specification for Asphalt Roof Coatings—asbestos-free**
Table R905.9.2
- D4551—2017: Specification for Poly (Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-containment Membrane**
P2709.2, P2709.2.1
- D4586/D4586M—2007(2018): 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—2015: 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—2016A: Specification for Asphalt-saturated (Organic Felt) Underlayment Used in Steep Slope Roofing**
R905.1.1, Table R905.1.1(1)
- D4897/D4897M—2016: 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—2016: Specification for Establishing and Monitoring Structural Capacities of Prefabricated Wood I-joists**
R502.1.2, R802.1.8
- D5456—2018: Standard Specification for Evaluation of Structural Composite Lumber Products**
R502.1.5, R602.1.5, R802.1.4
- D5516—2018: Test Method for Evaluating the Flexural Properties of Fire-retardant-treated Softwood Plywood Exposed to the Elevated Temperatures**
R802.1.5.6
- D5643/D5643M—2006(2018): Specification for Coal Tar Roof Cement Asbestos-free**
Table R905.9.2
- D5664—2017: 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
- D5726—98(2013): Specification for Thermoplastic Fabrics Used in Hot-applied Roofing and Waterproofing**
Table R905.9.2
- D6083/D6083M—2018: 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—2016: 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—2016: Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements**
Table R905.11.2
- D6164/D6164M—2016: Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Polyester Reinforcements**
Table R905.11.2
- D6222/D6222M—2016: Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using Polyester Reinforcements**
Table R905.11.2

REFERENCED STANDARDS

ASTM—continued

- D6223/D6223M—2016: Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcement**
Table R905.11.2
- D6298—2016: 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/D6380M—2003(2018): Standard Specification for Asphalt Roll Roofing (Organic Felt)**
Table R905.1.1(1), R905.2.8.2, R905.5.4
- D6464—2003A(2017): 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—2015: Standard Specification for Ketone-ethylene-ester-based Sheet Roofing**
R905.13.2
- D6757/D6757M—2018: Specification for Underlayment Felt Containing Inorganic Fibers Used with Steep Slope Roofing**
R905.1.1.1, Table R905.1.1(1)
- D6841—2016: Standard Practice for Calculating Design Value Treatment Adjustment Factors for Fire-retardant-treated Lumber**
R802.1.5.7
- D6878/D6878M—2017: Standard Specification for Thermoplastic-polyolefin-based Sheet Roofing**
R905.13.2
- D6947/D6947M—2016: Standard Specification for Liquid Applied Moisture Cured Polyurethane Coating Used in Spray Polyurethane Foam Roofing System**
Table R905.14.3, R905.15.2
- D7032—2017: 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—2019: Standard Test Method for Wind Resistance of Asphalt Shingles (Uplift Force/Uplift Resistance Method)**
R905.2.4.1, Table R905.2.4.1
- D7254—2017: 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—2014E1: Standard Specification for Evaluating Structural Capacities of Rim Board Products and Assemblies**
R502.1.7, R602.1.7, R802.1.7
- D7793—2017: Standard Specification for Insulated Vinyl Siding**
Table R703.3(1), R703.13
- E84—2018B: 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—2016: Test Method for Water Vapor Transmission of Materials**
R202, Table R806.5, M1411.6, M1601.4.6
- E108—2017: Test Methods for Fire Tests of Roof Coverings**
R302.2.4, R902.1
- E119—2018B: 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—2019: Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750 Degrees C**
R202, R302.11

ASTM—continued

- E283—2004(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, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference**
R609.4, R609.5, R609.6.2, R703.1.2
- E331—2000(2016): Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference**
R703.1.1
- E779—2010(2018): Standard Test Method for Determining Air Leakage Rate by Fan Pressurization**
N1102.4.1.2
- E814—2013A(2017): Standard Test Method for Fire Tests of Penetration Firestop Systems**
R302.4.1.2
- E970—2017: Standard Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source**
R302.10.5
- E1509—2012(2017): Standard Specification for Room Heaters, Pellet Fuel-burning Type**
M1410.1
- E1554/E1554 M—13(2018): Standard Test Methods for Determining Air Leakage of Air Distribution Systems by Fan Pressurization**
N1103.3.5
- E1602—2003(2011): Guide for Construction of Solid Fuel Burning Masonry Heaters**
R1002.2
- E1745—17: Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs**
R506.2.3
- E1827—2011(2017): Standard Test Methods for Determining Airtightness of Building Using an Orifice Blower Door**
N1102.4.1.2
- E1886—2013A: Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors and 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—2017: 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—2018: Standard Practice for Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assess Surface Burning Characteristics**
M1601.3
- E2273—2018: Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies**
R703.9.2
- E2556/E2556M—2010 ((2016)): Standard Specification for Vapor Permeable Flexible Sheet Water-resistive Barriers Intended for Mechanical Attachment**
((R703.2)) M1411.1
- E2558-2013: Standard Test Method for Determining Particulate Matter Emissions from Fires in Wood-burning Fireplaces**
R1004.1.1
- E2568—2017A: Standard Specification for PB Exterior Insulation and Finish Systems**
R703.9.1, R703.9.2
- 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—2018: Standard Specification for Flat Wall Insulating Concrete Form (ICF) Systems**
R404.1.3.3.6.1, R608.4.4

REFERENCED STANDARDS

ASTM—continued

- E2925—17: Standard Specification for Manufactured Polymeric Drainage and Ventilation Materials Used to Provide a Rainscreen Function**
R703.7.3.2
- E3087-18: Standard Test Method for Measuring Capture Efficiency of Domestic Range Hoods**
M1505.4.4.3.2, Table M1505.4.4.3
- F405—05: Specification for Corrugated Polyethylene (PE) Pipe and Fittings**
Table P3009.11, Table P3302.1
- F409—2017: 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—2017: Specification for Socket-type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40**
Table P2906.6
- F439—13: Specification for Socket Type 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
- F442/F442M—13E1: Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR)**
Table P2906.4, Table P2906.5
- 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—2012E2: 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
- F656—2015: 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 P3002.1(2), Table P3002.2, P3010.4
- F844—07a(2013): Standard Specification for Washers, Steel, Plain (Flat), Unhardened for General Use**
Table R507.2.3
- F876—2017: Specification for Cross-linked Polyethylene (PEX) Tubing**
Table M2101.1, Table P2906.4, Table P2906.5
- F877—2018A: Specification for Cross-linked Polyethylene (PEX) Plastic Hot- and Cold-water Distribution Systems**
Table M2101.1, Table P2906.6
- F891—2016: 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
- F1055—2016A: Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and Crosslinked Polyethylene Pipe and Tubing**
Table M2105.5, M2105.11.2, P2906.20.2
- F1281—2017: Specification for Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Pressure Pipe**
Table M2101.1, P2506.12.1, Table P2906.4, Table P2906.5, Table P2906.6
- F1282—2017: 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
- F1412—2016: Specification for Polyolefin Pipe and Fittings for Corrosive Waste Drainage**
Table P3002.1(2), Table P3002.2, Table P3002.3, P3003.11.1
- F1488—14E1: 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
- F1554—2018: Specification for Anchor Bolts, Steel, 36, 55 and 105-ksi Yield Strength**
R608.5.2.2

ASTM—continued

- F1667—2018: 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—2018: 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—2018: Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings**
Table P3002.3
- F1871—2011: Standard Specification for Folded/Formed 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—2018: 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—2013(2018): Standard Specification for Factory Assembled Anodeless Risers and Transition Fittings in Polyethylene (PE) and Polyamide 11 (PA 11) and Polyamide 12 (PA12) Fuel Gas Distribution Systems**
G2415.17.2
- 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—2001(2011): Specification for Multilayer Pipe, Type 2, Compression Fittings and Compression Joints for Hot and Cold Drinking Water Systems**
Table P2906.4, Table P2906.5, Table P2906.6
- F2080—2016: Specification for Cold-expansion Fittings with Metal Compression-sleeves for Cross-linked Polyethylene (PEX) Pipe**
Table P2906.6
- F2090—17: Specification for Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanisms**
R310.1.1, R312.2.1, R312.2.2
- F2098—2015: 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—2018: 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—2017A: Standard for Pressure-rated Polypropylene (PP) Piping Systems**
Table P2906.4, Table P2906.5, Table P2906.6, P2906.11.1
- F2434—14: Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX AL-PEX) Tubing**
Table P2906.6
- F2623—14: Standard Specification for Polyethylene of Raised Temperature (PE-RT) SDR9 Tubing**
Table M2101.1
- F2735—2009(2016): 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—2018: 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

REFERENCED STANDARDS

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
- F2945—2018: 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
- F3226/F3226M—16: Standard Specification for Metallic Press-Connect Fittings for Piping and Tubing Systems**
Table P2906.6
- F3253—2017: Standard Specification for Crosslinked Polyethylene (PEX) Tubing with Oxygen Barrier for Hot- and Cold-Water Hydronic Distribution Systems**
Table M2101.1

AWC

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

- 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—2021: Permanent Wood Foundation Design Specification**
R317.3.2, R401.1, R404.2.3
- 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, Figure R608.9(9), R608.9.2, R608.9.3, R608.10
- AWC STJR—2021: Span Tables for Joists and Rafters**
R502.3, R802.4.1, R802.5.1

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—20: 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—AMD1: Specification 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—16: Cement-mortar Lining for Ductile-iron Pipe and Fittings**
P2906.4
- C110/A21.10—12: Ductile-iron and Gray-iron Fittings**
Table P2906.6, P3002.3
- C115/A21.15—11: Flanged Ductile-iron Pipe with Ductile-iron or Gray-iron Threaded Flanges**
Table P2906.4
- C151/A21.51—17: 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—15: 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—17: 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
- 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 M2105.4
- C904—16: Cross-linked Polyethylene (PEX) Pressure Tubing, 1/2 in. (13 mm) through 3 in. (76 mm) for Water Service**
P2906.4

CEN

European Committee for Standardization (EN)
Rue de la Science 23
Brussels, Belgium B - 1040

- 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—18: 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—18: 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

ANSI 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

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

P2906.7

A112.19.5—2017/CSA B45.15—2017: Flush Valves and Spuds for Water-closets, Urinals and Tanks

Table P2701.1

A112.19.7—2012/CSA B45.10—2012(R2017): Hydromassage Bathtub Systems

Table P2701.1

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

AAMA/WDMA/CSA 101/LS.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

ANSI/CSA/IGSHPA C448 Series—16: Design and Installation of Ground Source Heat Pump Systems for Commercial and Residential Buildings

Table M2105.4, Table M2105.5

ASME A17.1/CSA B44—2019: Safety Code for Elevators and Escalators

R321.1

ASME A112.3.4—2018/CSA B45.9—2018: Macerating Toilet Systems and Related Components

Table P2701.1, P3007.5

ASME A112.4.2—2015/CSA B45.16—2015(2020): Water-closet Personal Hygiene Device

P2722.5

CSA—continued

- ASME A112.18.1—2018/CSA B125.1—2018: Plumbing Supply Fittings**
Table P2701.1, P2708.4, P2708.5, P2722.1, P2722.3, P2902.2, Table P2903.9.4
- ASME A112.18.2—2020/CSA B125.2—2020: Plumbing Waste Fittings**
Table P2701.1, P2702.2
- ASME A112.19.1—2018/CSA B45.2—18: Enameled Cast-iron and Enameled Steel Plumbing Fixtures**
Table P2701.1, P2711.1
- ASME A112.19.2—2018/CSA B45.1—18: Ceramic Plumbing Fixtures**
Table P2701.1, P2705.1, P2711.1, P2712.1, P2712.2, P2712.9
- ASME A112.19.3—2017/CSA B45.4—2017: Stainless Steel Plumbing Fixtures**
Table P2701.1, P2705.1, P2711.1, P2712.1
- ASSE 1002—2020/ASME A112.1002—2020/CSA B125.12—20: Anti-Siphon Fill Valves for Water Closet Tanks**
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—2020/ASME A112.1070—2020/CSA B125.70—2020: Performance Requirements for Water-temperature-limiting Devices**
P2713.3, P2721.2, P2724.1
- B44—2019: 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—11(R2016): Vacuum Breakers, Atmospheric Type (AVB)**
Table P2902.3, P2902.3.2
- B64.1.2—11(R2016): Pressure Vacuum Breakers (PVB)**
Table P2902.3, P2902.3.4
- B64.1.3—11(R2016): Spill Resistant Pressure Vacuum Breakers (SRPVB)**
Table P2902.3
- B64.2—11(R2016): Vacuum Breakers, Hose Connection Type (HCVB)**
Table P2902.3, P2902.3.2
- B64.2.1—11(R2016): Hose Connection Vacuum Breakers (HCVB) with Manual Draining Feature**
Table P2902.3, P2902.3.2
- B64.2.1.1—11(2016): Hose Connection Dual Check Vacuum Breakers (HCDVB)**
Table P2902.3, P2902.3.2
- B64.2.2—11(2016): Vacuum Breakers, Hose Connection Type (HCVB) with Automatic Draining Feature**
Table P2902.3, P2902.3.2
- B64.3—11(2016): Dual Check Backflow Preventers with Atmospheric Port (DCAP)**
Table P2902.3, P2902.3.2, P2902.5.1
- B64.4—11(2016): Backflow Preventers, Reduced Pressure Principle Type (RP)**
Table P2902.3, P2902.3.5
- B64.4.1—11(2016): Reduced Pressure Principle for Fire Sprinklers (RPF)**
Table P2902.3, P2902.3.5
- B64.5—11(2016): Double Check Backflow Preventers (DCVA)**
Table P2902.3, P2902.3.6
- B64.5.1—11(2016): Double Check Valve Backflow Preventers, Type for Fire Systems (DCVAF)**
Table P2902.3, P2902.3.6
- B64.6—11(2016): Dual Check Valve Backflow Preventers (DuC)**
Table P2902.3, P2902.3.7
- B64.7—11(2016): Laboratory Faucet Vacuum Breakers (LFVB)**
Table P2902.3, P2902.3.2

REFERENCED STANDARDS

CSA—continued

B125.3—18: Plumbing Fittings

Table P2701.1, P2713.3, P2721.2, Table P2902.3, P2902.4.1, Table P2903.9.4

B137.1—17: Polyethylene (PE) Pipe, Tubing and Fittings for Cold Water Pressure Services

Table P2906.4, Table P2906.6

B137.2—17: Polyvinylchloride PVC Injection-moulded Gasketed Fittings for Pressure Applications

Table P2906.6

B137.3—17: Rigid Poly (Vinyl Chloride) (PVC) Pipe for Pressure Applications

Table P2906.4, Table P2906.6, P3003.9.2

B137.5—17: Cross-linked Polyethylene (PEX) Tubing Systems for Pressure Applications

Table P2906.4, Table P2906.5, Table P2906.6

B137.6—17: Chlorinated polyvinylchloride CPVC Pipe, Tubing and Fittings For Hot- and Cold-water Distribution Systems

Table P2906.4, Table P2906.5, Table 2906.6

B137.9—17: Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe Systems

Table M2101.1, Table P2906.4

B137.10—17: 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—17: Polypropylene (PP-R) Pipe and Fittings for Pressure Applications

Table P2906.4, Table P2906.5, Table P2906.6

B137.18—17: 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—18: 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—18: 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—18: Polyolefin and polyvinylidene (PVDF) Laboratory Drainage Systems

Table P3002.1(1), Table P3002.1(2), Table P3002.2, Table P3002.3, P3003.11.1

B182.1—18: Plastic Drain and Sewer Pipe and Pipe Fittings

Table P3302.1

B182.2—18: PSM Type polyvinylchloride (PVC) Sewer Pipe and Fittings

Table P3002.2, Table P3302.1

B182.4—18: Profile polyvinylchloride (PVC) Sewer Pipe & Fittings

Table P3002.2, Table P3302.1

B182.6—18: Profile Polyethylene (PE) Sewer Pipe and Fittings for leak-proof Sewer Applications

Table P3302.1

B182.8—18: Profile Polyethylene (PE) Storm Sewer and Drainage Pipe and Fittings

Table P3302.1

B356—10(R2020): Water Pressure Reducing Valves for Domestic Water Supply Systems

P2903.3.1

B483.1—07(R2017): Drinking Water Treatment Systems

P2909.1, P2909.2

B602—16: 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

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

M2006.1

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

M2006.1

CAN/CSA/C22.2 No. 60335-2-40-2012 60335-2-40-2019

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

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

G2433.1

CSA—continued

CSA A257.1—2014: Non-reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings
Table P3002.2

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

CSA B805—18/ICC 805—18: Rainwater Harvesting Systems
P2912.1

CSA O325—16: Construction Sheathing
R503.2.1, R602.1.8, R604.1, R803.2.1

NMX-J-521/2-40-ANCE-2019/CAN/CSA-C22.2 No. 60335-2-40-19/UL60335-2-40-2019 Household and Similar Electric Appliances. Part 2-40-Safety: Particular Requirements for Electric Heat Pumps, Air-Conditioners and Dehumidifiers
M2006.1

O437-Series—93(R2011): Standards on OSB and Waferboard
R503.2.1, R602.1.8, R604.1, R803.2.1

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 Cedar Shingles of the Cedar Shake and Shingle Bureau
R702.6, R703.6

DASMA

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

105—2017: Test Method for Thermal Transmittance and Air Infiltration of Garage Doors and Rolling Doors
N1101.10.3

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

ANSI/DASMA 115—2017: 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

DHA

Decorative Hardwoods Association (formerly HPVA)
42777 Trade West Drive
Sterling, Virginia 20166

ANSI/HPVA HP-1—2016: American National Standard for Hardwood and Decorative Plywood
R702.5

DOC

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

PS 1—19: Structural Plywood
R404.2.1, Table R404.2.3, R503.2.1, R602.1.8, R604.1, R803.2.1

PS 2—18: Performance Standard for Wood Structural 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
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

G2414.5.1

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
Norwood, MA 02062

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

R906.1

4474—2011: American National Standard for Evaluating the Simulated Wind Uplift Resistance of Roof Assemblies Using Static Positive and/or Negative Differential Pressures

R905.4.4.1

ANSI/FM 4880—(2017): American National Standard for Evaluating the Fire Performance of Insulated Building Panel Assemblies and Interior Finish Materials

R316.6

GA

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

GA-253—2018: Application of Gypsum Sheathing

Table R602.3(1)

HVI

Home Ventilating Institute
1740 Dell Range Blvd., Suite H, PMB 450
Cheyenne, WY 82009

916—18: Airflow Test Procedure

N1103.6.2

HVI Publication 911: Certified Home Ventilation Products Directory

M1505.4.4.3.1

HVI Publication 915 (2016 with 2020 update): Procedure for Loudness Rating of Residential Fan Products

M1505.4.1.2, M1505.4.1.3, M1505.4.4.2

HVI Publication 916 (2015 with 2020 Update): Air Flow Test Procedure

M1505.4.1.2, M1505.4.1.3, M1505.4.4.2

HVI Publication 920 (2020): Product Performance Certification Procedure Including Verification and Challenge

M1505.4.1.2, M1505.4.1.3, M1505.4.1.5, M1505.4.4.2

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—2019: Standard for the Calculation and Labeling of the Energy Performance of Low-rise Dwelling and Sleeping Units Using the Energy Rating Index
N1106.4

ANSI/RESNET/ICC 380—2019: Standard for Testing Airtightness of Building, Dwelling Unit and Sleeping Unit Enclosures; Airtightness of Heating and Cooling Air Distribution Systems and Airflow of Mechanical Ventilation Systems
N1102.4.1.2

IBC—21: International Building Code®
R320.1.1, R101.2, R202, R301.1.1, R301.1.3, R301.2.1.1, R301.2.2.1.1, R301.2.2.1.2, R301.3,
Table R302.1(1), Table R302.1(2), R302.2.1, R302.2.2, R302.3, R308.5, R320.1, 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 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—2020: ICC/NSSA Standard for the Design and Construction of Storm Shelters
R323.1

ICC 600—2020: Standard for Residential Construction in High-wind Regions
R301.2.1.1

ICC 900/SRCC 300—2020: 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—2020: Solar Thermal Collector Standard
M2301.3.1

ICC/ANSI A117.1—17: Accessible and Usable Buildings and Facilities
R321.3

IEBC—21: International Existing Building Code®
R110.2

IECC—06: International Energy Conservation Code®
N1101.6

IECC—21: International Energy Conservation Code®
N1101.1, N1103.8, Table N1105.4.2(1)

IFC—21: International Fire Code®
R102.7, R324.2, M2201.7, G2402.3, G2412.2

IFGC—21: International Fuel Gas Code®
G2401.1, G2402.3, G2423.1

IMC—21: International Mechanical Code®
G2402.3

IPC—21: International Plumbing Code®
Table R301.2(1), R903.4.1, G2402.3, P2601.1

IPMC—21: International Property Maintenance Code®
R102.7

IPSDC—21: International Private Sewage Disposal Code®
R322.1.7

ISPSC—21: International Swimming Pool and Spa Code®
R327.1

REFERENCED STANDARDS

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
N1103.5.2.2

ISO

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

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—2009: Pipe Hangers and Supports—Materials, Design, Manufacture, Selection, Application, and Installation
G2418.2

SP-67—2011: Butterfly Valves
Table P2903.9.4

SP-70—2011: Gray Iron Gate Valves, Flanged and Threaded Ends
Table P2903.9.4

SP-71—2011: 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—2019: Bronze Gate, Globe, Angle and Check Valves
Table P2903.9.4

SP-110—2010: Ball Valves, Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends (incl. a 2010 Errata Sheet)
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

NEMA

National Electrical Manufacturers Association
12300 17th Street North No. 900
Arlington, VA 22209

OS 4—2016: Requirements for Air-Sealed Boxes for Electrical and Communication Applications
N1102.4.6

NFPA

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

13D—19: 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—19: Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies
R325.5

31—20: Standard for the Installation of Oil-burning Equipment
M1701.1, M1801.3.1, M1805.3, M2201.2

58—20: Liquefied Petroleum Gas Code
G2412.2, G2414.5.2

70—20: National Electrical Code
R107.3, R324.3, R328.6, E3401.1, E3401.2, E4301.1, Table E4303.2, E4304.3, E4304.4

72—19: National Fire Alarm and Signaling Code
R314.1, R314.7.1

85—19: Boiler and Combustion Systems Hazards Code
G2452.1

211—19: 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

276—15: Standard Method of Fire Tests for Determining the Heat Release Rate of Roofing Assemblies with Combustible Above-deck Roofing Components
R906.1

286—19: Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
R302.9.4, R316.6

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—20: 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—2020: Procedure for Determining Fenestration Products *U*-Factors
N1101.10.3

200—2020: Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence
N1101.10.3

400—2020: 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
Ann Arbor, MI 48105

14—2017: Plastics Piping System Components and Related Materials
M1301.4, P2609.3, P2909.3

41—2016: Non-Liquid Saturated Treatment Systems
P2725.1

42—2017: Drinking Water Treatment Units—Aesthetic Effects
P2909.1, P2909.3

44—2017: Residential Cation Exchange Water Softeners
P2909.1, P2909.3

50—2017: Equipment for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities
P2911.8.1

53—2017: Drinking Water Treatment Units—Health Effects
P2909.1, P2909.3

58—2017: Reverse Osmosis Drinking Water Treatment Systems
P2909.2, P2909.3

61—2018: Drinking Water System Components—Health Effects
P2609.5, P2722.1, P2903.9.4, P2906.4, P2906.5, P2906.6, P2909.3

62—2017: Drinking Water Distillation Systems
P2909.1

350—2017a: Onsite Residential and Commercial Water Reuse Treatment Systems
P2911.6.1

358-1—2017: Polyethylene Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems
M2105.4, M2105.5

358-2—2017: Polypropylene Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems
Table M2105.4, M2105.5

358-3—2016: Cross-linked Polyethylene (PEX) Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems
Table M2105.4, Table M2105.5

358-4—2018: Polyethylene of Raised Temperature (PE-RT) Tubing and Fittings for Water-Based Ground-Source (Geothermal) Heat Pump Systems
Table 2105.4, Table 2105.5

359—2016: Valves for Crosslinked Polyethylene (PEX) Water Distribution Tubing Systems
Table P2903.9.4

372—2016: Drinking Water Systems Components—Lead Content
P2906.2.1

PCA

Portland Cement Association
5420 Old Orchard Road
Skokie, IL 60077

100—17: Prescriptive Design of Exterior Concrete Walls for One- and Two-family Dwellings (Pub. No. PCA 100.3)
R301.2.2.5, 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

ANSI/SBCA FS100—2012(R2018): Standard Requirements for Wind Pressure Resistance of Foam Plastic Insulating Sheathing Used in Exterior Wall Covering Assemblies

R316.8

BCSI—2018: 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—(updated June 2016): 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

SMACNA

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

SMACNA—2010: Fibrous Glass Duct Construction Standards 7th edition

M1601.1.1, M1601.4.1

ANSI/SMACNA 006—2020: HVAC Duct Construction Standards—Metal and Flexible 4th Edition

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
2670 Crain Highway, Suite 203
Waldorf, MD 20601

TPI 1—2014: National Design Standard for Metal Plate Connected Wood Truss Construction

R502.11.1, R802.10.2

UL

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—2004: Materials for Built-up Roof Coverings

R905.9.2

58—2018: Steel Underground Tanks for Flammable and Combustible Liquids

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 March 2017

R202, R1005.3, G2430.1

REFERENCED STANDARDS

UL—continued

- 127—2011: Factory-built Fireplaces—with revisions through July 2016**
R1001.11, R1004.1, R1004.4, R1004.5, R1005.4, N1102.4.2, G2445.7
- 174—2004: Household Electric Storage Tank Water Heaters—with revisions through December 2016**
M2005.1
- 180—2012: Liquid-level Indicating Gauges for Oil Burner Fuels and Other Combustible Liquids—with revisions through May 2017**
M2201.5
- 181—2005: Factory-made Air Ducts and Air Connectors—with revisions through April 2017**
M1601.1.1, M1601.4.1
- 181A—2013: Closure Systems for Use with Rigid Air Ducts and Air Connectors—with revisions through March 2017**
M1601.2, M1601.4.1
- 181B—2013: Closure Systems for Use with Flexible Air Ducts and Air Connectors—with revisions through March 2017**
M1601.4.1
- 217—2015: Smoke Alarms—with revisions through November 2016**
R314.1.1, R315.1.1
- 263—2011: Fire Test of Building Construction and Materials—with revisions through March 2018**
Table R302.1(2), R302.2, R302.2.1, R302.2.2, R302.4.1, R302.11.1, R606.2.2
- 268—2016: Smoke Detectors for Fire Alarm Systems—with revisions through July 2016**
R314.7.1, R314.7.4, R315.7.4
- 325—2017: Door, Drapery, Gate, Louver and Window Operations and Systems**
R309.4
- 343—2017: Pumps for Oil-burning Appliances**
M2204.1
- 378—06: Draft Equipment—with revisions through September 2013**
M1804.2.6, G2427.3.3
- 441—16: Gas Vents—with revisions through July 2016**
G2426.1, G2427.6.1
- 467—13: Grounding and Bonding Equipment**
G2411.2.5
- 507—2017: Electric Fans—with revisions through August 2018**
M1503.2
- 508—2018: Industrial Control Equipment**
M1411.3.1
- 515—11: Electrical Resistance Heat Tracing for Commercial and Industrial Applications Including Revisions through July 2015**
N1103.5.1.2
- 536—2014: Flexible Metallic Hose**
M2202.3
- 580—2006: Test for Uplift Resistance of Roof Assemblies—with Revisions through October 2013**
R905.4.4.1
- 641—2010: Type L, Low-temperature Venting Systems—with revisions through April 2018**
R202, R1003.11.5, M1804.2.4, G2426.1, G2427.6.1
- 651—2011: Schedule 40, Type EB and A Rigid PVC Conduit and Fittings—with revisions through June 2016**
G2414.5.3
- 705—2017: Power Ventilators—with revisions through October 2018**
M1502.4.4
- 723—2018: Standard for Test 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
- 726—95: Oil-fired Boiler Assemblies—with revisions through October 2013**
M2001.1.1, M2006.1
- 727—2018: Oil-fired Central Furnaces**
M1402.1

UL—continued

- 729—2003: Oil-fired Floor Furnaces**
M1408.1
- 730—03: Oil-fired Wall Furnaces—with revisions through November 2016**
M1409.1
- 732—2018: Oil-fired Storage Tank Water Heaters—with revisions through August 2018**
M2005.1
- 737—2011: Fireplaces Stoves**
M1414.1, M1901.2
- 790—04: Standard Test Methods for Fire Tests of Roof Coverings—with revisions through October 2018**
R302.2.4, R902.1
- 795—2016: Commercial-industrial Gas Heating Equipment**
G2442.1, G2452.1
- 834—2004: Heating, Water Supply and Power Boilers—Electric—with revisions through September 2018**
M2001.1.1
- 842—2015: Valves for Flammable Fluids—with revisions through May 2015**
M2204.2
- 858—2014: Household Electric Ranges—with revisions through June 2018**
M1503.2, M1901.2
- 875—09: Electric Dry-bath Heaters—with revisions through September 2017**
M1902.2
- 896—1993: Oil-burning Stoves—with revisions through November 2016**
M1410.1
- 907—94: Fireplace Accessories—with revisions through November 2014**
R1001.13
- 923—2013: Microwave Cooking Appliances—with revisions through July 2017**
M1503.2, M1504.1, 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 July 2018**
M1901.2
- 1040—1996: Fire Test of Insulated Wall Construction—with revisions through April 2017**
R316.6
- 1042—2009: Electric Baseboard Heating Equipment—with revisions through December 2016**
M1405.1
- 1256—02: Fire Test of Roof Deck Construction—with revisions through August 2018**
R906.1
- 1261—2016: Electric Water Heaters for Pools and Tubs—with revisions through September 2017**
M2006.1
- 1479—2015: Fire Tests of Through-Penetration Firestops**
R302.4.1.2
- 1482—2011: Solid-Fuel-type Room Heaters—with revisions through August 2015**
R1002.2, R1002.5, M1410.1
- 1563—2009: Electric Spas, Equipment Assemblies, and Associated Equipment—with revisions through October 2017**
M2006.1
- 1618—2015: Wall Protectors, Floor Protectors, and Hearth Extensions—with revisions through January 2018**
R1004.2, M1410.2
- 1693—2010: Electric Radiant Heating Panels and Heating Panel Sets—with revisions through October 2011**
M1406.1
- 1703—2002: Flat-plate Photovoltaic Modules and Panels—with revisions through September 2018**
R324.3.1, R902.4, R905.16.4
- 1715—97: Fire Test of Interior Finish Material—with revisions through April 2017**
R316.6

REFERENCED STANDARDS

UL—continued

- 1738—2010: Venting Systems for Gas-burning Appliances, Categories II, III and IV**
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 February 2018**
R324.3.1, R328.6
- 1777—07: Chimney Liners—with revisions through April 2014**
R1003.11.1, R1003.18, M1801.3.4, G2425.12, G2425.15.4, G2427.5.1, G2427.5.2
- 1897—15: Uplift Tests for Roof Covering Systems**
R905.4.4.1
- 1995—2015: Heating and Cooling Equipment—with revisions through August 2018**
M1402.1, M1403.1, M1407.1, M1412.1, M1413.1, M2006.1
- 1996—2009: Electric Duct Heaters—with revisions through July 2016**
M1402.1, M1407.1
- 2034—2017: Standard for Single- and Multiple-station Carbon Monoxide Alarms—with revisions through September 2018**
R314.1.1, R315.1.1
- 2075—2013: Gas and Vapor Detectors and Sensors—with revisions through December 2017**
R314.7.4, R315.7.1, R315.7.4
- 2158A—2013: Outline of Investigation for Clothes Dryer Transition Duct—with revisions through April 2017**
M1502.4.3, G2439.7.3
- 2200—2012: Stationary Engine Generator Assemblies—with revisions through October 2015**
R329.1
- 2523—2009: Standard for Solid Fuel-fired Hydronic Heating Appliances, Water Heaters and Boilers—with revisions through March 2018**
M2001.1.1, M2005.1
- 2703—2014: Mounting Systems, Mounting Devices, Clamping/Retention Devices and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels—with revisions through December 2019**
R902.4
- 7103—19: Outline of Investigation for Building-Integrated Photovoltaic Roof Covering**
R902.3, R905.16.4, Table 905.16.6, R905.17.5
- 9540—2016: Standard for Energy Storage Systems and Equipment**
R328.2, R328.6
- 61730-1—2017: Photovoltaic (PV) Module Safety Qualification—Part 1: Requirements for Construction**
R324.3.1, R905.16.4, 905.17.5
- 61730-2—2017: Photovoltaic (PV) Module Safety Qualification—Part 2: Requirements for Testing**
R324.3.1, R905.16.4, R905.17.5
- UL/CSA/ANCE 60335-2-40—((2012)) 2019: ((Standard for)) Household and Similar Electrical Appliances ((g)) – Safety: Part 2–40: Particular Requirements for ((Motor compressors)) Electrical Heat Pumps, Air Conditioners and Dehumidifiers**
((M1402.1,)) M1403.1, M1412.1, M1413.1 ((–M2006.1))

ULC

ULC
13775 Commerce Parkway
Richmond, BC V6V 2V4

- CAN/ULC S 102.2—2018: Standard Method of 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/LS.2/A440—17: North American Fenestration Standard/Specification for Windows, Doors and Skylights
R308.6.9, R609.3, N1102.4.3

I.S. 11—18: 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—2018: Standard Method of Determining Structural Performance Ratings of Side-Hinged Exterior Door Systems and Procedures for Component Substitution
R609.3

