

## CHAPTER 14

# REFERENCED STANDARDS

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standards shall be as specified in Section 102.8.

## ANSI

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

Standard reference number	Title	Referenced in code section number
A118.10—99	Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin Set Ceramic Tile and Dimension Stone Installation . . . . .	417.5.2.5, 417.5.2.6
Z4.3—95	Minimum Requirements for Nonsewered Waste-disposal Systems . . . . .	311.1
Z21.22—99 (R2003)	Relief Valves for Hot Water Supply Systems with Addenda Z21.22a—2000 (R2003) and Z21.22b—2001 (R2003) . . . . .	504.2, 504.4, 504.4.1
Z124.1.2—2005	Plastic Bathtub and Shower Units . . . . .	407.1, 417.1
Z124.3—95	Plastic Lavatories . . . . .	416.1, 416.2, 417.1
Z124.4—96	Plastic Water Closet Bowls and Tanks . . . . .	420.1
Z124.6—97	Plastic Sinks . . . . .	415.1, 418.1
Z124.9—94	Plastic Urinal Fixtures . . . . .	419.1

## AHRI

Air-Conditioning, Heating, & Refrigeration Institute  
4100 North Fairfax Drive, Suite 200  
Arlington, VA 22203

Standard reference number	Title	Referenced in code section number
1010—02	Self-contained, Mechanically Refrigerated Drinking-Water Coolers . . . . .	410.1

## ASME

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

Standard reference number	Title	Referenced in code section number
A112.1.2—2004	Air Gaps in Plumbing Systems . . . . .	Table 608.1, 608.13.1
A112.1.3—2000 (Reaffirmed 2005)	Air Gap Fittings for Use with Plumbing Fixtures, Appliances and Appurtenances . . . . .	Table 608.1, 608.13.1, 1102.6
A112.3.1—2007	Stainless Steel Drainage Systems for Sanitary, DWV, Storm and Vacuum Applications Above and Below Ground. . . . .	412.1, Table 702.1, Table 702.2, Table 702.3, Table 702.4, 708.2, Table 1102.4, Table 1102.5, Table 1102.7
A112.3.4—2000 (Reaffirmed 2004)	Macerating Toilet Systems and Related Components . . . . .	712.4.1
A112.4.1—1993 (R2002)	Water Heater Relief Valve Drain Tubes . . . . .	504.6
A112.4.2—2003(R2008)	Water Closet Personal Hygiene Devices . . . . .	424.9
A112.4.3—1999 (Reaffirmed 2004)	Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System . . . . .	405.4
A112.6.1M—1997 (R2002)	Floor-affixed Supports for Off-the-floor Plumbing Fixtures for Public Use . . . . .	405.4.3
A112.6.2—2000 (Reaffirmed 2004)	Framing-affixed Supports for Off-the-floor Water Closets with Concealed Tanks . . . . .	405.4.3
A112.6.3—2001 (Reaffirmed 2007)	Floor and Trench Drains . . . . .	412.1

**REFERENCED STANDARDS**

**ASME—continued**

A112.6.4—2003 (R2008)	Roof, Deck, and Balcony Drains . . . . .	1102.6
A112.6.7—2001 (Reaffirmed 2007)	Enameled and Epoxy-coated Cast-iron and PVC Plastic Sanitary Floor Sinks . . . . .	427.1
A112.6.9—05	Siphonic Roof Drains . . . . .	1107.1
A112.14.1—2003	Backwater Valves . . . . .	715.2
A112.14.3—2000	Grease Interceptors . . . . .	1003.3.4
A112.14.4—2001 (Reaffirmed 2007)	Grease Removal Devices . . . . .	1003.3.4
A112.18.1—2005/ CSA B125.1—2005	Plumbing Supply Fittings . . . . .	424.1, 424.2, 424.3, 424.4, 424.6, 607.4, 608.2
A112.18.2—2005/ CSA B125.1—2010	Plumbing Waste Fittings with 2007 and 2008 Supplements . . . . .	424.1.2
A112.18.3—2002 (Reaffirmed 2008)	Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings . . . . .	424.2, 424.6
A112.18.6/ CSA B125.6—2009	Flexible Water Connectors . . . . .	605.6
A112.18.7—1999 (Reaffirmed 2004)	Deck mounted Bath/Shower Transfer Valves with Integral Backflow Protection . . . . .	424.8
A112.19.1M/ CSA B45.2—2008	Enameled Cast Iron and Enameled Steel Plumbing Fixtures . . . . .	407.1, 410.1, 415.1, 416.1, 418.1
A112.19.2—2008/ CSA B45.1—08	Ceramic Plumbing Fixtures . . . . .	401.2, 405.9, 407.1, 408.1, 410.1, 415.1, 416.1, 417.1, 418.1, 419.1, 420.1
A112.19.3M—2008/ CSA B45.4—08	Stainless Steel Plumbing Fixtures . . . . .	405.9, 407.1, 415.1, 416.1, 418.1, 420.1
A112.19.5/ CSA B45.15—2009	Trim for Water-closet Bowls, Tanks and Urinals . . . . .	425.4
A112.19.7M/ CSA B45.10—2009	Hydromassage Bathtub Appliances . . . . .	421.1, 421.4
A112.19.12—2006	Wall Mounted and Pedestal Mounted, Adjustable, Elevating, Tilting and Pivoting Lavatory, Sink and Shampoo Bowl Carrier Systems and Drain Systems . . . . .	416.4, 418.3
A112.19.15—2005	Bathtub/Whirlpool Bathtubs with Pressure Sealed Doors . . . . .	407.4, 421.6
A112.19.19—2006	Vitreous China Nonwater Urinals . . . . .	419.1
A112.36.2M—1991 (R2008)	Cleanouts . . . . .	708.2
B1.20.1—1983(R2006)	Pipe Threads, General Purpose (inch) . . . . .	605.10.3, 605.12.3, 605.14.4, 605.16.3, 605.18.1, 605.22.3, 705.2.3, 705.4.3, 705.9.4, 705.12.1, 705.14.3
B 16.3—2006	Malleable Iron Threaded Fittings Classes 150 and 300 . . . . .	Table 605.5, Table 702.4, Table 1102.7
B 16.4—2006	Gray Iron Threaded Fittings Classes 125 and 250 . . . . .	Table 605.5, Table 702.4, Table 1102.7
B 16.9—2007	Factory-made Wrought Steel Butt-welding Fittings . . . . .	Table 605.5, Table 702.4, Table 1102.7
B 16.11—2005	Forged Fittings, Socket-welding and Threaded . . . . .	Table 605.5, Table 702.4, Table 1102.7
B16.12—1998 (Reaffirmed 2006)	Cast-iron Threaded Drainage Fittings . . . . .	Table 605.5, Table 702.4, Table 1102.7
B16.15—2006	Cast Bronze Threaded Fittings . . . . .	Table 605.5, Table 702.4, Table 1102.7
B 16.18—2001 (Reaffirmed 2005)	Cast Copper Alloy Solder Joint Pressure Fittings . . . . .	Table 605.5, Table 702.4, Table 1102.7
B16.22—2001 (Reaffirmed 2005)	Wrought Copper and Copper Alloy Solder Joint Pressure Fittings . . . . .	Table 605.5, Table 702.4, Table 1102.7
B16.23—2002 (Reaffirmed 2006)	Cast Copper Alloy Solder Joint Drainage Fittings DWV . . . . .	Table 605.5, Table 702.4, Table 1102.7
B 16.26—2006	Cast Copper Alloy Fittings for Flared Copper Tubes . . . . .	Table 605.5, Table 702.4, Table 1102.7
B 16.28—1994	Wrought Steel Butt-welding Short Radius Elbows and Returns . . . . .	Table 605.5, Table 702.4, Table 1102.7
B 16.29—2007	Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings (DWV) . . . . .	Table 605.5, Table 702.4, Table 1102.7

**ASPE**

American Society of Plumbing Engineers  
8614 Catalpa Avenue, Suite 1007  
Chicago, IL 60656-1116

Standard reference number	Title	Referenced in code section number
45—2007	Siphonic Roof Drainage Systems . . . . .	1107.1



American Society of Sanitary Engineering  
 901 Canterbury Road, Suite A  
 Westlake, OH 44145

Standard reference number	Title	Referenced in code section number
1001—08	Performance Requirements for Atmospheric Type Vacuum Breakers	.425.2, Table 608.1, 608.13.6, 608.16.4.1
1002—08	Performance Requirements for Antisiphon Fill Valves (Ballcocks) for Gravity Water Closet Flush Tanks	.425.3.1, Table 608.1
1003—09	Performance Requirements for Water Pressure Reducing Valves	.604.8
1004—08	Performance Requirements for Backflow Prevention Requirements for Commercial Dishwashing Machines	.409.1
1005—99	Performance Requirements for Water Heater Drain Valves	.501.3
1008—06	Performance Requirements for Plumbing Aspects of Food Waste Disposer Units	.413.1
1010—04	Performance Requirements for Water Hammer Arresters	.604.9
1011—04	Performance Requirements for Hose Connection Vacuum Breakers	Table 608.1, 608.13.6
1012—09	Performance Requirements for Backflow Preventers with Intermediate Atmospheric Vent	Table 608.1, 608.13.3, 608.16.2
1013—09	Performance Requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers	Table 608.1, 608.13.2, 608.16.2
1015—09	Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies	Table 608.1, 608.13.7
1016—2010	Performance Requirements for Individual Thermostatic, Pressure Balancing and Combination Control Valves for Individual Fixture Fittings	.424.3, 424.4, 607.4
1017—2010	Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems	501.2, 613.1
1018—2010	Performance Requirements for Trap Seal Primer Valves; Potable Water Supplied	1002.4
1019—2010	Performance Requirements for Vacuum Breaker Wall Hydrants, Freeze Resistant, Automatic Draining Type	Table 608.1, 608.13.6
1020—04	Performance Requirements for Pressure Vacuum Breaker Assembly	Table 608.1, 608.13.5
1022—03	Performance Requirements for Backflow Preventer for Beverage Dispensing Equipment	Table 608.1, 608.16.1, 608.16.10
1024—04	Performance Requirements for Dual Check Valve Type Backflow Preventers (for Residential Supply Service or Individual Outlets)	.605.3.1, Table 608.1
1035—08	Performance Requirements for Laboratory Faucet Backflow Preventers	Table 608.1, 608.13.6
1037—90	Performance Requirements for Pressurized Flushing Devices for Plumbing Fixtures	.425.2
1044—2010	Performance Requirements for Trap Seal Primer Devices Drainage Types and Electronic Design Types	1002.4
1047—2009	Performance Requirements for Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies	Table 608.1, 608.13.2
1048—2009	Performance Requirements for Double Check Detector Fire Protection Backflow Prevention Assemblies	Table 608.1, 608.13.7
1049—2009	Performance Requirements for Individual and Branch Type Air Admittance Valves for Chemical Waste Systems	901.3, 918.8
1050—2009	Performance Requirements for Stack Air Admittance Valves for Sanitary Drainage Systems	918.1
1051—2009	Performance Requirements for Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems-fixture and Branch Devices	.917.1
1052—04	Performance Requirements for Hose Connection Backflow Preventers	Table 608.1, 608.13.6
1055—2009	Performance Requirements for Chemical Dispensing Systems	608.13.9
1056—2010	Performance Requirements for Spill Resistant Vacuum Breaker	Table 608.1, 608.13.5, 608.13.8
1060—2006	Performance Requirements for Outdoor Enclosures for Fluid Conveying Components	608.14.1
1061—2010	Performance Requirements for Removable and Nonremovable Push Fit Fittings	Table 605.5
1062—2006	Performance Requirements for Temperature Actuated, Flow Reduction Valves to Individual Supply Fittings	.424.7
1066—97	Performance Requirements for Individual Pressure Balancing In-line Valves for Individual Fixture Fittings	.604.11
1069—05	Performance Requirements for Automatic Temperature Control Mixing Valves	.424.4
1070—04	Performance Requirements for Water-temperature Limiting Devices	408.3, 416.5, 424.5, 607.1.2
1079—2005	Performance Requirements for Dielectric Pipe Unions	605.24.1, 605.24.3
5013—2009	Performance Requirements for Testing Reduced Pressure Principle Backflow Prevention Assembly (RPA) and Reduced Pressure Fire Protection Backflow Preventers (RFP)	312.10.2
5015—2009	Performance Requirements for Testing Double Check Valve Backflow Prevention Assemblies (DC) and Double Check Fire Protection Backflow Prevention Assemblies (DCF)	312.10.2
5020—2009	Performance Requirements for Testing Pressure Vacuum Breaker Assemblies (PVBA)	312.10.2

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5047—98	Performance Requirements for Testing Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies (RPDA) . . . . .	312.10.2
5048—2009	Performance Requirements for Testing Double Check Valve Detector Assembly (DCDA) . . . . .	312.10.2
5052—98	Performance Requirements for Testing Hose Connection Backflow Preventers . . . . .	312.10.2
5056—98	Performance Requirements for Testing Spill Resistant Vacuum Breaker (SRVB) . . . . .	312.10.2

**ASTM**

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

Standard reference number	Title	Referenced in code section number
A 53/A 53M—07	Specification for Pipe, Steel, Black and Hot-dipped, Zinc-coated Welded and Seamless. . . . .	Table 605.3, Table 605.4, Table 702.1
A 74—09	Specification for Cast-iron Soil Pipe and Fittings . . . . .	Table 702.1, Table 702.2, Table 702.3, Table 702.4, 708.2, 708.7, Table 1102.4, Table 1102.5, Table 1102.7
A 312/A 312M—08a	Specification for Seamless, Welded, And Heavily Cold Worked Austenitic Stainless Steel Pipes . . . . .	Table 605.3, Table 605.4, Table 605.5, 605.23.2
A 733—03	Specification for Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples . . . . .	Table 605.8
A 778—01	Specification for Welded Unannealed Austenitic Stainless Steel Tubular Products . . . . .	Table 605.3, Table 605.4, Table 605.5
A 888—09	Specification for Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Application . . . . .	Table 702.1, Table 702.2, Table 702.3, Table 702.4, 708.7, Table 1102.4, Table 1102.5, Table 1102.7
B 32—08	Specification for Solder Metal . . . . .	605.14.3, 605.15.4, 705.9.3, 705.10.3
B 42—02e01	Specification for Seamless Copper Pipe, Standard Sizes . . . . .	Table 605.3, Table 605.4, Table 702.1
B 43—98(2004)	Specification for Seamless Red Brass Pipe, Standard Sizes . . . . .	Table 605.3, Table 605.4, Table 702.1
B 75—02	Specification for Seamless Copper Tube . . . . .	Table 605.3, Table 605.4, Table 702.1, Table 702.2, Table 702.3, Table 1102.4
B 88—03	Specification for Seamless Copper Water Tube . . . . .	Table 605.3, Table 605.4, Table 702.1, Table 702.2, Table 702.3, Table 1102.4
B 152/B 152M—06a	Specification for Copper Sheet, Strip Plate and Rolled Bar . . . . .	402.3, 417.5.2.4, 425.3.3, 902.2
B 251—02e01	Specification for General Requirements for Wrought Seamless Copper and Copper-alloy Tube . . . . .	Table 605.3, Table 605.4, Table 702.1, Table 702.2, Table 702.3, Table 1102.4
B 302—07	Specification for Threadless Copper Pipe, Standard Sizes . . . . .	Table 605.3, Table 605.4, Table 702.1
B 306—09	Specification for Copper Drainage Tube (DWV) . . . . .	Table 702.1, Table 702.2, Table 1102.4
B 447—07	Specification for Welded Copper Tube . . . . .	Table 605.3, Table 605.4
B 687—99(2005)e01	Specification for Brass, Copper and Chromium-plated Pipe Nipples . . . . .	Table 605.8
B 813—00(2009)	Specification for Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube . . . . .	605.14.3, 605.15.4, 705.9.3, 705.10.3
B 828—02	Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings . . . . .	605.14.3, 605.15.4, 705.9.3, 705.10.3
C 4—04e01	Specification for Clay Drain Tile and Perforated Clay Drain Tile . . . . .	Table 702.3, Table 1102.4, Table 1102.5
C 14—07	Specification for Nonreinforced Concrete Sewer, Storm Drain and Culvert Pipe . . . . .	Table 702.3, Table 1102.4
C 76—08a	Specification for Reinforced Concrete Culvert, Storm Drain and Sewer Pipe . . . . .	Table 702.3, Table 1102.4
C 296—00(2004)	Specification for Asbestos-cement Pressure Pipe . . . . .	Table 605.3
C 425—04	Specification for Compression Joints for Vitrified Clay Pipe and Fittings . . . . .	705.15, 705.19
C 428—05(2006)	Specification for Asbestos-cement Nonpressure Sewer Pipe . . . . .	Table 702.2, Table 702.3, Table 702.4, Table 1102.4
C 443—05a	Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets . . . . .	705.6, 705.19
C 508—00(2004)	Specification for Asbestos-cement Underdrain Pipe . . . . .	Table 1102.5
C 564—08	Specification for Rubber Gaskets for Cast-iron Soil Pipe and Fittings . . . . .	705.5.2, 705.5.3, 705.19
C 700—07a	Specification for Vitrified Clay Pipe, Extra Strength, Standard Strength, and Perforated . . . . .	Table 702.3, Table 702.4, Table 1102.4, Table 1102.5
C 1053—00(2005)	Specification for Borosilicate Glass Pipe and Fittings for Drain, Waste, and Vent (DWV) Applications . . . . .	Table 702.1, Table 702.4

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C 1173—08	Specification for Flexible Transition Couplings for Underground Piping System . . . . .	705.2.1, 705.6, 705.7.1, 705.14.1, 705.15, 705.16.2, 705.19
C 1277—08	Specification for Shielded Coupling Joining Hubless Cast-iron Soil Pipe and Fittings . . . . .	705.5.3
C 1440—08	Specification for Thermoplastic Elastomeric (TPE) Gasket Materials for Drain, Waste, and Vent (DWV), Sewer, Sanitary and Storm Plumbing Systems . . . . .	705.19
C 1460—08	Specification for Shielded Transition Couplings for Use with Dissimilar DWV Pipe and Fittings Above Ground . . . . .	705.19
C 1461—08	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 . . . . .	705.19
C 1540—08	Specification for Heavy Duty Shielded Couplings Joining Hubless Cast-iron Soil Pipe and Fittings . . . . .	705.5.3
C 1563—08	Standard Test Method for Gaskets for Use in Connection with Hub and Spigot Cast Iron Soil Pipe and Fittings for Sanitary Drain, Waste, Vent and Storm Piping Applications . . . . .	705.5.2
D 1527—99(2005)	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe, Schedules 40 and 80 . . . . .	Table 605.3
D 1785—06	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80 and 120 . . . . .	Table 605.3
D 1869—95(2005)e1	Specification for Rubber Rings for Asbestos-cement Pipe . . . . .	605.11, 605.24, 705.3, 705.19
D 2235—04	Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings . . . . .	605.10.2, 705.2.2, 705.2.2, 705.7.2
D 2239—03	Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter . . . . .	Table 605.3
D 2241—05	Specification for Poly (Vinyl Chloride) (PVC) Pressure-rated Pipe (SDR-Series) . . . . .	Table 605.3
D 2282—99e01(2005)	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe (SDR-PR) . . . . .	Table 605.3
D 2464—06	Specification for Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80 . . . . .	Table 605.5
D 2466—06	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40 . . . . .	Table 605.5
D 2467—06	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80 . . . . .	Table 605.5
D 2468—96a	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe Fittings, Schedule 40 . . . . .	Table 605.5
D 2564—04e01	Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems . . . . .	605.22.2, 705.8.2, 705.14.2
D 2609—02(2008)	Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe . . . . .	Table 605.5
D 2657—07	Practice for Heat Fusion-joining of Polyolefin Pipe and Fitting Waste, and Vent Pipe and Fittings . . . . .	605.19.2, 705.16.1
D 2661—08	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings . . . . .	Table 702.1, Table 702.2, Table 702.3, Table 702.4, 705.2.2, 705.7.2, Table 1102.4, Table 1102.7
D 2665—09	Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings . . . . .	Table 702.1, Table 702.2, Table 702.3, Table 702.4, Table 1102.4, Table 1102.7
D 2672—96a(2003)	Specification for Joints for IPS PVC Pipe Using Solvent Cement . . . . .	Table 605.3
D 2683—04	Standard Specification for Socket-type Polyethylene fittings for Outside Diameter-controlled Polyethylene Pipe and Tubing . . . . .	Table 605.5
D 2729—03	Specification for Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings . . . . .	Table 1102.5, Table 1303.10
D 2737—03	Specification for Polyethylene (PE) Plastic Tubing . . . . .	Table 605.3
D 2751—05	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings . . . . .	Table 702.3, Table 702.4, Table 1102.4, Table 1102.7
D 2846/D 2846M—09	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot and Cold Water Distribution Systems . . . . .	Table 605.3, Table 605.4, Table 605.5, 605.16.2
D 2855—96(2002)	Standard Practice for Making Solvent-cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings . . . . .	605.22.2, 705.8.2, 705.14.2
D 2949—01a(2008)	Specification for 3.25-in Outside Diameter Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings . . . . .	Table 702.1, Table 702.2, Table 702.3, Table 702.4, Table 1102.7
D 3034—08	Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings . . . . .	Table 702.3, Table 702.4, Table 1102.4, Table 1102.7
D 3035—08	Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter . . . . .	Table 605.3
D 3139—98(2005)	Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals . . . . .	605.10.1, 605.22.1
D 3212—07	Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals . . . . .	705.2.1, 705.7.1, 705.8.1, 705.14.1, 705.16.2
D 3261—03	Specification for Butt Heat Fusion Polyethylene (PE) Plastic fittings for Polyethylene (PE) Plastic Pipe and Tubing . . . . .	Table 605.5
D 3311—08	Specification for Drain, Waste and Vent (DWV) Plastic Fittings Patterns . . . . .	Table 1102.7
D 4068—01	Specification for Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-containment Membrane . . . . .	417.5.2.2

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D 4551—96(2008) e1	Specification for Poly (Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-containment Membrane . . . . .	417.5.2.1
F 405—05	Specification for Corrugated Polyethylene (PE) Pipe and Fittings . . . . .	Table 1102.5, Table 1303.10
F 409—02 (2008)	Specification for Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings . . . . .	424.1.2, Table 1102.7
F 437—06	Specification for Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80 . . . . .	Table 605.5
F 438—04	Specification for Socket-type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40 . . . . .	Table 605.5
F 439—06	Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80 . . . . .	Table 605.5
F 441/F 441M—02 (2008)	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80 . . . . .	Table 605.3, Table 605.4
F 442/F 442M—99(2005) e1	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR) . . . . .	Table 605.3, Table 605.4
F 477—08	Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe . . . . .	605.24, 705.19
F 493—04	Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings . . . . .	605.16.2
F 628—08	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe with a Cellular Core . . . . .	Table 702.1, Table 702.2, Table 702.3, Table 702.4, 705.2.2, 705.7.2, Table 1102.4, Table 1102.7
F 656—08	Specification for Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings . . . . .	605.22.2, 705.8.2, 705.14.2
F 714—08	Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter . . . . .	Table 702.3
F 876—08b	Specification for Cross-linked Polyethylene (PEX) Tubing . . . . .	Table 605.3, Table 605.4
F 877—07	Specification for Cross-linked Polyethylene (PEX) Plastic Hot and Cold Water Distribution Systems . . . . .	Table 605.3, Table 605.4, Table 605.5
F 891—07	Specification for Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe with a Cellular Core . . . . .	Table 702.1, Table 702.2, Table 702.3, Table 1102.4, Table 1102.5, Table 1102.7
F 1055—98(2006)	Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing . . . . .	Table 605.5
F 1281—07	Specification for Cross-linked Polyethylene/Aluminum/ Cross-linked Polyethylene (PEX-AL-PEX) Pressure Pipe . . . . .	Table 605.3, Table 605.4, Table 605.5, 605.21.1
F 1282—06	Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe . . . . .	Table 605.3, Table 605.4, Table 605.5, 605.21.1
F 1412—09	Specification for Polyolefin Pipe and Fittings for Corrosive Waste Drainage . . . . .	Table 702.1, Table 702.2, Table 702.4, 705.17.1
F 1488—03	Specification for Coextruded Composite Pipe . . . . .	Table 702.1, Table 702.2, Table 702.3, Table 1303.10
F 1673—04	Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems . . . . .	Table 702.1, Table 702.2, Table 702.3, Table 702.4, 705.18.1
F 1807—08	Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing . . . . .	Table 605.5
F 1866—07	Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings . . . . .	Table 702.4, Table 1102.7
F 1960—09	Specification for Cold Expansion Fittings with PEX Reinforcing Rings for use with Cross-linked Polyethylene (PEX) Tubing . . . . .	Table 605.5
F 1974—08	Specification for Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene Composite Pressure Pipe . . . . .	Table 605.5, 605.21.1
F 1986—01(2006)	Specification for Multilayer Pipe, Type 2, Compression Fittings and Compression Joints for Hot and Cold Drinking Water Systems . . . . .	Table 605.3, Table 605.4, Table 605.5
F 2080—08	Specifications for Cold-expansion Fittings with Metal Compression-sleeves for Cross-linked Polyethylene (PEX) Pipe . . . . .	Table 605.5
F 2098—08	Standard specification for Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing to Metal Insert Fittings . . . . .	Table 605.5
F 2159—05	Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing . . . . .	Table 605.5
F 2262—05	Specification for Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene Tubing OD Controlled SDR9 . . . . .	Table 605.3, Table 605.4
F 2306/F 2306M—08	12" to 60" Annular Corrugated Profile-wall Polyethylene (PE) Pipe and Fittings for Gravity Flow Storm Sewer and Subsurface Drainage Applications . . . . .	Table 1102.4, Table 1102.7
F 2389—07e1	Specification for Pressure-rated Polypropylene (PP) Piping Systems . . . . .	Table 605.3, Table 605.4, Table 605.5, 605.20.1
F 2434—08	Standard Specification for Metal 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 605.5

**ASTM—continued**

F 2735—09	Standard Specification for SDR9 Cross-linked Polyethylene (PEX) and Raised Temperature (PE-RT) Tubing . . . . .	Table 605.5
F 2769—09	Polyethylene or Raised Temperature (PE-RT) Plastic Hot and Cold Water Tubing and Distribution Systems . . . . .	Table 605.3, Table 605.4

**AWS**

American Welding Society  
550 N.W. LeJeune Road  
Miami, FL 33126

Standard reference number	Title	Referenced in code section number
A5.8—04	Specifications for Filler Metals for Brazing and Braze Welding . . . . .	605.12.1, 605.14.1, 605.15.1, 705.4.1, 705.9.1, 705.10.1

**AWWA**

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

Standard reference number	Title	Referenced in code section number
C104—98	Standard for Cement-mortar Lining for Ductile-iron Pipe and Fittings for Water . . . . .	605.3, 605.5
C110/A21.10—03	Standard for Ductile-iron and Gray-iron Fittings, 3 Inches through 48 Inches, for Water . . . . .	Table 605.5, Table 702.4, Table 1102.7
C111—00	Standard for Rubber-gasket Joints for Ductile-iron Pressure Pipe and Fittings . . . . .	605.13
C115/A21.15—99	Standard for Flanged Ductile-iron Pipe with Ductile-iron or Gray-iron Threaded Flanges . . . . .	Table 605.3, Table 605.4
C151/A21.51—02	Standard for Ductile-iron Pipe, Centrifugally Cast for Water . . . . .	Table 605.3, Table 605.4
C153—00/A21.53—00	Standard for Ductile-iron Compact Fittings for Water Service . . . . .	Table 605.5
C510—00	Double Check Valve Backflow Prevention Assembly . . . . .	Table 608.1, 608.13.7
C511—00	Reduced-pressure Principle Backflow Prevention Assembly . . . . .	Table 608.1, 608.13.2, 608.16.2
C651—99	Disinfecting Water Mains . . . . .	610.1
C652—02	Disinfection of Water-storage Facilities . . . . .	610.1
C901—08	Polyethylene (PE) Pressure Pipe and Tubing 1/2 inch (13 mm) Through 3 inch (76 mm) for Water Service . . . . .	Table 605.3
C904—08	Cross-linked Polyethylene (PEX) Pressure Pipe 1/2 inch (13 mm) Through 3 inch (76 mm) for Water Service . . . . .	Table 605.3

**CISPI**

Cast Iron Soil Pipe Institute  
5959 Shallowford Road, Suite 419  
Chattanooga, TN 37421

Standard reference number	Title	Referenced in code section number
301—04a	Specification for Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications . . . . .	Table 702.1, Table 702.2, Table 702.3, Table 702.4, 708.7, Table 1102.4, Table 1102.5, Table 1102.7
310—04	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 . . . . .	705.5.3

**CSA**

Canadian Standards Association  
5060 Spectrum Way  
Mississauga, Ontario, Canada L4W 5N6

Standard reference number	Title	Referenced in code section number
A257.1M—92	Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings . . . . .	Table 702.3, Table 1102.4
A257.2M—92	Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings . . . . .	Table 702.3, Table 1102.4

**REFERENCED STANDARDS**

**CSA—continued**

A257.3M—92	Joints for Circular Concrete Sewer and Culvert Pipe, Manhole Sections and Fittings Using Rubber Gaskets . . . . .	705.6, 705.19
ASME A112.18.1/ CSA B125.1—05	Plumbing Supply Fittings . . . . .	424.1, 424.2, 424.3, 424.4, 424.6, 607.4, 608.2
ASME A112.18.2/ CSA B125.2—05	Plumbing Waste Fittings . . . . .	424.1.2
ASME A112.9.2/B45.1—08	Ceramic Plumbing Fixtures . . . . .	401.2, 405.9, 407.1, 408.1, 410.1, 415.1, 416.1, 417.1, 418.1, 419.1, 420.1
ASME A112.19.1/ CSA B45.2—08	Enameled Cast-iron and Enameled Steel Plumbing Fixtures . . . . .	407.1, 410.1, 415.1, 416.1, 418.1
ASME A112.19.3/ CSA B45.4—08	Stainless-steel Plumbing Fixtures . . . . .	405.9, 407.1, 415.1, 416.1, 418.1, 420.1
ASME A112.19.5/ CSA B45.15—09	Trim for Water Closet Bowls and Tanks . . . . .	425.4
ASME A112.19.7/ CSA B45.10—09	Hydromassage Bathtub Appliances . . . . .	421.1, 421.4
B45.5—02(R2008)	Plastic Plumbing Fixtures . . . . .	407.1, 416.2, 417.1, 419.1, 420.1
B45.9—99(R2008)	Macerating Systems and Related Components . . . . .	712.4.1
B64.1.1—01	Vacuum Breakers, Atmospheric Type (AVB) . . . . .	425.2, Table 608.1, 608.13.6, 608.16.4.1
B64.1.2—07	Pressure Vacuum Breakers, (PVB) . . . . .	Table 608.1, 608.13.5
B64.1.3—07	Spill Resistant Pressure Vacuum Breaks (SRPVB) . . . . .	608.13.8
B64.2—01	Vacuum Breakers, Hose Connection Type (HCVB) . . . . .	Table 608.1, 608.13.6
B64.2.1—07	Vacuum Breakers, Hose Connection (HCVB) with Manual Draining Feature . . . . .	Table 608.1, 608.13.6
B64.2.1.1—07	Hose Connection Dual Check Vacuum Breakers, (HCDVB) . . . . .	Table 608.1, 608.13.6
B64.2.2—01	Vacuum Breakers, Hose Connection Type (HCVB) with Automatic Draining Feature . . . . .	Table 608.1, 608.13.6
B64.3—01	Backflow Preventers, Dual Check Valve Type with Atmospheric Port (DCAP) . . . . .	Table 608.1, 608.13.3, 608.16.2
B64.4—01	Backflow Preventers, Reduced Pressure Principle Type (RP) . . . . .	Table 608.1, 608.13.2, 608.16.2
B64.4.1—07	Reduced Pressure Principle for Fire Sprinklers (RPF) . . . . .	Table 608.1, 608.13.2
B64.5—07	Double Check Backflow Preventers (DCVA) . . . . .	Table 608.1, 608.13.7
B64.5.1—07	Double Check Valve Backflow Preventer for Fire Systems (DCVAF) . . . . .	Table 608.1, 608.13.7
B64.6—07	Dual Check Backflow Preventers Valve (DuC) . . . . .	605.3.1, Table 608.1
B64.7—07	Laboratory Faucet Vacuum Breakers (LFVB) . . . . .	Table 608.1, 608.13.6
B64.10—07	Manual for the Selection and Installation of Backflow Prevention Devices . . . . .	312.10.2
B64.10—01	Manual for the Selection, Installation, Maintenance and Field Testing of Backflow Prevention Devices . . . . .	312.10.2
B79—08	Commercial and Residential Drains, and Cleanouts . . . . .	412.1
B125.3—2005	Plumbing Fittings . . . . .	408.3, 416.5, 424.4, 424.5, 425.2, 425.3.1, Table 608.1
B137.1—05	Polyethylene (PE) Pipe, Tubing and Fittings for Cold Water Pressure Services . . . . .	Table 605.3, Table 605.5
B137.2—05	Polyvinylchloride PVC Injection-moulded Gasketed Fittings for Pressure Applications . . . . .	Table 605.5
B137.3—05	Rigid Poly (Vinyl Chloride) (PVC) Pipe for Pressure Applications . . . . .	Table 605.3, Table 605.4, Table 605.5, 605.22.2, 705.8.2, 705.14.2
B137.5—05	Cross-linked Polyethylene (PEX) Tubing Systems for Pressure Applications . . . . .	Table 605.3, Table 605.4, Table 605.5
B137.6—05	CPVC Pipe, Tubing and Fittings for Hot and Cold Water Distribution Systems . . . . .	Table 605.3, Table 605.4
B137.9—02	Polyethylene/Aluminum/Polyethylene Composite Pressure Pipe Systems . . . . .	Table 605.3, Table 605.5, 605.21.1
B137.10M—02	Cross-linked Polyethylene/Aluminum/Polyethylene Composite Pressure Pipe Systems . . . . .	Table 605.3, Table 605.4, Table 605.5, 605.21.1
B137.11—05	Polypropylene (PP-R) Pipe and Fittings for Pressure Applications . . . . .	Table 605.3, Table 605.4, Table 605.5
B181.1—06	Acrylonitrile-butadiene-styrene ABS Drain, Waste and Vent Pipe and Pipe Fittings . . . . .	Table 702.1, Table 702.2, Table 702.3, Table 702.4, 705.2.2, 705.7.2, 715.2, Table 1102.4, Table 1102.7
B 181.2—06	Polyvinylchloride PVC and chlorinated polyvinylchloride (CPVC) Drain, Waste, and Vent Pipe and Pipe Fittings . . . . .	Table 702.1, Table 702.2, 705.8.2, 705.14.2, 715.2
B181.3—02	Polyolefin Laboratory Drainage Systems . . . . .	Table 702.1, Table 702.2, Table 702.3, Table 702.4, 705.17.1
B182.1—06	Plastic Drain and Sewer Pipe and Pipe Fittings . . . . .	705.8.2, 705.14.2, Table 1102.4
B182.2—06	PSM Type Polyvinylchloride PVC Sewer Pipe and Fittings . . . . .	Table 702.3, Table 1102.4, Table 1102.5
B182.4—02	Profile PVC Sewer Pipe and Fittings . . . . .	Table 702.3, Table 1102.4, Table 1102.5
B182.4—06	Profile Polyvinylchloride PVC Sewer Pipe and Fittings . . . . .	Table 702.3, Table 1102.4, Table 1102.5
B182.6—06	Profile Polyethylene Sewer Pipe and . . . . .	Table 1102.5
B182.8—06	Profile Polyethylene (PE) Storm Sewer and Drainage Pipe and Fittings . . . . .	Table 1102.5
B356—00(2005)	Water Pressure Reducing Valves for Domestic Water Systems. . . . .	604.8
B483.1—07	Drinking Water Treatment Units . . . . .	611.1, 611.2
B481.3	Sizing, Selection, Location and Installation of Grease Interceptors . . . . .	1003.3.4



**CSA—continued**

B481.1—07	Testing and Rating of Grease interceptors Using Lard . . . . .	1003.3.4
B602—02	Mechanical Couplings for Drain, Waste and Vent Pipe and Sewer Pipe . . . . .	705.2.1, 705.5.3, 705.6, 705.7.1, 705.14.1, 705.15, 705.16.2, 705.19

**ICC**

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

Standard reference number	Title	Referenced in code section number
IBC—12	International Building Code® . . . . .	201.3, 307.1, 307.2, 307.3, 308.2, 309.1, 309.2, 310.1, 310.3, 315.1, 403.1, Table 403.1, 403.4, 404.1, 407.3, 417.6, 502.4, 606.5.2, 1106.5
IECC—12	International Energy Conservation Code® . . . . .	313.1
IFC—12	International Fire Code® . . . . .	201.3, 1201.1
IFGC—12	International Fuel Gas Code® . . . . .	101.2, 201.3, 502.1
IMC—12	International Mechanical Code® . . . . .	201.3, 307.6, 310.1, 422.9, 502.1, 612.1, 1202.1
IPSDC—12	International Private Sewage Disposal Code® . . . . .	701.2
IRC—12	International Residential Code® . . . . .	101.2

**ISEA**

International Safety Equipment Association  
1901 N. Moore Street, Suite 808  
Arlington, VA 22209

Standard reference number	Title	Referenced in code section number
Z358.1—98	Emergency Eyewash and Shower Equipment . . . . .	411.1

**NFPA**

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

Standard reference number	Title	Referenced in code section number
50—01	Bulk Oxygen Systems at Consumer Sites . . . . .	1203.1
51—07	Design and Installation of Oxygen-fuel Gas Systems for Welding, Cutting and Allied Processes . . . . .	1203.1
70—11	National Electric Code . . . . .	502.1, 504.3, 1114.1.3
99C—05	Gas and Vacuum Systems . . . . .	1202.1

**NSF**

NSF International  
789 Dixboro Road  
Ann Arbor, MI 48105

Standard reference number	Title	Referenced in code section number
3—2008	Commercial Warewashing Equipment . . . . .	409.1
14—2008e	Plastic Piping System Components and Related Materials . . . . .	303.3, 611.3
18—2007	Manual Food and Beverage Dispensing Equipment . . . . .	426.1
42—2007ae	Drinking Water Treatment Units-Aesthetic Effects . . . . .	611.1, 611.3
44—2007	Residential Cation Exchange Water Softeners . . . . .	611.1, 611.3
53—2007a	Drinking Water Treatment Units-Health Effects . . . . .	611.1, 611.3
58—2007	Reverse Osmosis Drinking Water Treatment Systems . . . . .	611.2, 611.3
61—2008	Drinking Water System Components-Health Effects . . . . .	410.1, 424.1, 605.3, 605.4, 605.5, 605.7, 611.3
62—2007	Drinking Water Distillation Systems . . . . .	611.1

**REFERENCED STANDARDS**

**PDI**

Plumbing and Drainage Institute  
 800 Turnpike Street, Suite 300  
 North Andover, MA 01845

Standard reference number	Title	Referenced in code section number
G101(2003)	Testing and Rating Procedure for Grease Interceptors with Appendix of Sizing and Installation Data	1003.3.4
G102	Testing and Certification for Grease Interceptors with Fog Sensing and Alarm Devices	1003.3.4

**UL**

Underwriters Laboratories, Inc.  
 333 Pfingsten Road  
 Northbrook, IL 60062-2096

Standard reference number	Title	Referenced in code section number
508—99	Industrial Control Equipment - with revision through April 2010	314.2.3