



## Department of Commerce

Division of Industrial Compliance

John R. Kasich, Governor  
Andre T. Porter, Director

November 2014

At its meeting on October 24, 2014, the Ohio Board of Building Standards adopted the rule changes identified as Amendments Group 89. These rule amendments were adopted for an **effective date of January 1, 2015.**

Amendments Group 89 included the following amended Ohio Plumbing Code (OPC) rule. For your use, a summary of the changes is provided below and the text of the rule can be found immediately following this coversheet:

Rule Number	OPC Chapter	Chapter Title	Effective date
4101:3-13-01	13	Referenced standards.	January 1, 2015

**Reason for Amendments: 4101:3-13-01** to update the NFPA 70 standard in the Ohio Plumbing Code to the 2014 edition for non-residential buildings as a result of approved Petition #13-004.

If you should have any questions regarding these rule changes, please call BBS staff at (614)644-2613.

**4101:3-13-01 Referenced standards.**

**1301.1 General.** This chapter lists the *codes and 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 *the title*. The application of the referenced standards shall be as specified in Section 102.5 of the building code.

**1301.2 Referenced codes.** When indicated in the “OPC”, the following codes refer to provisions in the listed chapters of the Administrative Code:

<i>Referenced code</i>	<i>Ohio Administrative Code chapters</i>
<i>Building Code</i>	<i>4101:1-1 to 4101:1-35</i>
<i>Fire Code</i>	<i>1301:7-1 to 1301:7-7</i>
<i>Mechanical Code</i>	<i>4101:2-1 to 4101:2-15</i>
<i>Ohio Boiler and Pressure Vessel Rules</i>	<i>4101:4-1 to 4101:4-10</i>

**1301.3 Referenced Standards.**

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

<b>Standard Referenced</b>	<b>Title</b>
A118.10-10	Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin Set Ceramic Tile and Dimension Stone Installation
Z4.3—95 (R2005)	Minimum Requirements for Nonsewered Waste-Disposal Systems ( <i>Standard is developed by the Portable Sanitation Association International-PSAI</i> )
Z21.22—99 (R2003)	Relief Valves for Hot Water Supply Systems with Addenda Z21.22a-2000 (R2003) and Z21.22b-2001 (R2003) ( <i>Standard is developed by the Canadian Standards Association-CSA and is the same as CSA 4.4-M99</i> )
Z124.1.2—05	Plastic Bathtub and Shower Units ( <i>Standard is developed by IAPMO</i> )
Z124.3—05	Plastic Lavatories ( <i>Standard is developed by IAPMO</i> )
Z124.4—06	Plastic Water Closet Bowls and Tanks ( <i>Standard is developed by IAPMO</i> )
Z124.6—07	Plastic Sinks ( <i>Standard is developed by IAPMO</i> )
Z124.9—04	Plastic Urinal Fixtures. ( <i>Standard is developed by IAPMO</i> )

## **AHRI** Air-Conditioning, Heating, & Refrigeration Institute

4100 North Fairfax Drive, Suite 200  
Arlington, VA 22203

### **Standard Referenced**

### **Title**

1010—02 Self-contained, Mechanically Refrigerated Drinking-Water Coolers

## **ASME** American Society of Mechanical Engineers Three

Park Avenue  
New York, NY 10016-5990

### **Standard Referenced**

### **Title**

A112.1.2—2004	Air Gaps in Plumbing Systems
A112.1.3—2000 (R 2005)	Air Gap Fittings for Use with Plumbing Fixtures, Appliances and Appurtenances
A112.3.1—2007	Stainless Steel Drainage Systems for Sanitary, DWV, Storm and Vacuum Applications Above and Below Ground
A112.3.4—2000 (R 2004)	Macerating Toilet Systems and Related Components
A112.4.1—2009	Water Heater Relief Valve Drain Tubes
A112.4.3—1999 (R 2004)	Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System
A112.6.1M—1997 (R2002)	Floor-affixed Supports for Off-the-floor Plumbing Fixtures for Public Use
A112.6.2—2000 (R2004)	Framing-affixed Supports for Off-the-floor Water Closets with Concealed Tanks
A112.6.3—2001 (R 2007)	2001 Floor and Trench Drains
A112.6.7—2001 (R 2007)	Enameled and Epoxy-coated Cast-iron and PVC Plastic Sanitary Floor Sinks
A112.14.1—2003	Backwater Valves
A112.14.3—2000	Grease Interceptors
A112.14.4—2001(R2007)	Grease Removal Devices
A112.18.1-2005	Plumbing Supply Fittings
CSA B125.1-2005/A112.18.2-2005	Plumbing Waste Fittings
CSA B125.2-2005/A112.18.3-2002	Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings
A112.18.6—2009	Flexible Water Connectors.
A112.18.7—1999 (R2004)	Deck mounted Bath/Shower Transfer Valves with Integral Backflow Protection
A112.19.1M—2008	Enameled Cast Iron Plumbing Fixtures

A112.19.2—2008	Vitreous China Plumbing Fixtures and Hydraulic Requirements for Water Closets and Urinals .
A112.19.3M—2008	Stainless Steel Plumbing Fixtures (Designed for Residential Use
A112.19.4M—1994 (R 2004)	Porcelain Enameled Formed Steel Plumbing Fixtures.
A112.19.5—2005	Trim for Water-closet Bowls, Tanks and Urinals
A112.19.6—1995	Hydraulic Performance Requirements for Water Closets and Urinals
A112.19.7M—2006	HydromassageBathtub Appliances
A112.19.8M—2007	Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, Hot Tubs
A112.19.9M—1991(R2002)	Nonvitreous Ceramic Plumbing Fixtures with 2002 Supplement
A112.19.12—2006	Wall Mounted and Pedestal Mounted, Adjustable, Elevating, Tilting and Pivoting Lavatory, Sink and Shampoo Bowl Carrier Systems and Drain Systems
A112.19.13—2001 (R2007)	ElectrohydraulicWater Closets
A112.19.15— 2005	Bathtub/Whirlpool Bathtubs with Pressure Sealed Doors
A112.19.19—2006	Vitreous ChinaNonwaterUrinals
A112.21.2M—1983	Roof Drains
A112.36.2M—1991(R2002)	Cleanouts
B1.20.1—1983(R2006)	Pipe Threads, General Purpose (inch
B16.3—2006	Malleable Iron Threaded Fittings Classes 150 and 300
B16.4—2006	Gray Iron Threaded Fittings Classes 125 and 250
B16.9—2007	Factory-made Wrought Steel Butt welding Fittings.
B16.11—2009	Forged Fittings, Socket-welding and Threaded.
B16.12—2009	Cast-iron Threaded Drainage Fittings
B16.15—2006	Cast Bronze Threaded Fittings
B16.18—2001(R 2005)	Cast Copper Alloy Solder Joint Pressure Fittings
B16.22—2001 (R2005)	Wrought Copper and Copper Alloy Solder Joint Pressure Fittings
B16.23—2002 (R 2006)	Cast Copper Alloy Solder Joint Drainage Fittings DWV
B16.26—2006	Cast Copper Alloy Fittings for Flared Copper Tubes .
B16.28—1994	Wrought Steel Butt welding Short Radius Elbows and Returns
B16.29—2007	Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings (DWV)
<i>BPVC Section IX-2010</i>	<i>Welding and Brazing Qualifications.</i>

## **ASSE** American Society of Sanitary Engineering

901 Canterbury Road, Suite A  
Westlake, OH 44145

### **Standard Referenced**

### **Title**

1001—08	Performance Requirements for Atmospheric Type Vacuum Breakers
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1002—08	Performance Requirements for Antisiphon Fill Valves (Ballcocks) for Gravity Water Closet Flush Tanks
1003—09	Performance Requirements for Water Pressure Reducing Valves .
1004—08	Performance Requirements for Backflow Prevention Requirements for Commercial Dishwashing Machines .
1005—99	Performance Requirements for Water Heater Drain Valves.
1006—86	Performance Requirements for Residential Use Dishwashers.
1007—86	Performance Requirements for Home Laundry Equipment
1008—06	Performance Requirements for Household Food Waste Disposer Units
1009—90	Performance Requirements for Commercial Food Waste Grinder Units
1010—04	Performance Requirements for Water Hammer Arresters
1011—04	Performance Requirements for Hose Connection Vacuum Breakers
1012—09	Performance Requirements for Backflow Preventers with Intermediate Atmospheric Vent .
1013—09	Performance Requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Fire Protection Principle Backflow Preventers
1015—09	Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies
1016—05	Performance Requirements for Individual Thermostatic, Pressure Balancing and Combination Control Valves for Individual Fixture Fittings
1017—09	Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems.
1018—01	Performance Requirements for Trap Seal Primer Valves; Potable Water Supplied
1019—04	Performance Requirements for Vacuum Breaker Wall Hydrants, Freeze Resistant, Automatic Draining Type
1020—04	Performance Requirements for Pressure Vacuum Breaker Assembly
1022—03	Performance Requirements for Backflow Preventer for Beverage Dispensing Equipment
1024—04	Performance Requirements for Dual Check Valve Type Backflow Preventers (for Residential Supply Service or Individual Outlets
1035—08	Performance Requirements for Laboratory Faucet Backflow Preventers
1037—90	Performance Requirements for Pressurized Flushing Devices for Plumbing Fixtures
1044—01	Performance Requirements for Trap Seal Primer Devices Drainage Types and Electronic Design Types
1047—09	Performance Requirements for Reduced Pressure Detector Fire Protection BackflowPrevention Assemblies
1048—09	Performance Requirements for Double Check Detector Fire Protection BackflowPrevention Assemblies

1050—09	Performance Requirements for Stack Air Admittance Valves for Sanitary Drainage Systems .
1051—09	Performance Requirements for Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems-fixture and Branch Devices
1052—04	Performance Requirements for Hose Connection Backflow Preventers
1055—09	Performance Requirements for Chemical Dispensing Systems
1056—01	Performance Requirements for Spill Resistant Vacuum Breaker
1060—06	Performance Requirements for Outdoor Enclosures for Backflow Prevention Assemblies
1061—06	Performance Requirements for Removable and Nonremovable Push Fit Fittings
1062—06	Performance Requirements for Temperature Actuated, Flow Reduction Valves to Individual Fixture Fittings
1066—97	Performance Requirements for Individual Pressure Balancing In-line Valves for Individual Fixture Fittings
1069—05	Performance Requirements for Automatic Temperature Control Mixing Valves
1070—04	Performance Requirements for Water-temperature Limiting Devices
1072—07	Performance Requirements for Barrier Type Floor Drain Trap Seal Protection Devices
1079—05	Dielectric Pipe Unions.
5013—09	Performance Requirements for Testing Reduced Pressure Principle Backflow Prevention Assembly (RPA) and Reduced Pressure Fire Protection Principle Backflow Preventers(RFP)
5015—09	Performance Requirements for Testing Double Check Valve Backflow Prevention Assembly (DCVA)
5020—09	Performance Requirements for Testing Pressure Vacuum Breaker Assembly (PVBA)
5047—09	Performance Requirements for Testing Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies (RPDA) .
5048—09	Performance Requirements for Testing Double Check Valve Detector Assembly (DCDA).
5052—09	Performance Requirements for Testing Hose Connection Backflow Preventers
5056—09	Performance Requirements for Testing Spill Resistant Vacuum Breaker.

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

**Standard**

<b>Referenced</b>	<b>Title</b>
A 53/A 53M—10	Specification for Pipe, Steel, Black and Hot-dipped, Zinc-coated Welded and Seamless
A 74—09	Specification for Cast-iron Soil Pipe and Fittings
A 312/A 312M—09	Specification for Seamless and Welded Austenitic Stainless Steel Pipes
A 733—03 (2009)e1	Specification for Welded and Seamless Carbon Steel and Austenitic Stainless Steel Pipe Nipples
A 778—01(2009)e1	Specification for Welded Unannealed Austenitic Stainless Steel Tubular Products
A 888—09	Specification for Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Application
B 32—08	Specification for Solder Metal
B 42—10	Specification for Seamless Copper Pipe, Standard Sizes
B 43—09	Specification for Seamless Red Brass Pipe, Standard Sizes
B 75—02	Specification for Seamless Copper Tube
B 88—09	Specification for Seamless Copper Water Tube
B 152/B 152M—09	Specification for Copper Sheet, Strip Plate and Rolled Bar
B 251—10	Specification for General Requirements for Wrought Seamless Copper and Copper-alloy Tube
B 302—07	Specification for Threadless Copper Pipe, Standard Sizes
B 306—09	Specification for Copper Drainage Tube (DWV)
B 447—07	Specification for Welded Copper Tube
B 687—99(2005)e01	Specification for Brass, Copper and Chromium-plated Pipe Nipples
B 813—10	Specification for Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube
B 828—02	Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings.
C 4—04 (2009)	Specification for Clay Drain Tile and Perforated Clay Drain Tile
C 14—07	Specification for Nonreinforced Concrete Sewer, Storm Drain and Culvert Pipe.
C 76—10a	Specification for Reinforced Concrete Culvert, Storm Drain and Sewer Pipe
C 296-00 (2009)e1	Specification for Asbestos-cement Pressure Pipe
C 425—04 (2009)	Specification for Compression Joints for Vitriified Clay Pipe and Fittings
C 428—05 (2006)	Specification for Asbestos-cement Nonpressure Sewer Pipe
C 443—05ae1	Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets
C 508- 00 (2009)e1	Specification for Asbestos-cement Underdrain Pipe
C 564—09a	Specification for Rubber Gaskets for Cast-iron Soil Pipe and Fittings
C 700—09	Specification for Vitriified Clay Pipe, Extra Strength, Standard Strength, and Perforated .
C 1053—00(2010)	Specification for Borosilicate Glass Pipe and Fittings for Drain, Waste, and Vent (DWV) Applications

C 1173—08	Specification for Flexible Transition Couplings for Underground Piping System.
C 1277—09a	Specification for Shielded Coupling Joining Hubless Cast-iron Soil Pipe and Fittings
C 1440—08	Specification for Thermoplastic Elastomeric (TPE) Gasket Materials for Drain, Waste, and Vent (DWV), Sewer, Sanitary and Storm Plumbing Systems
C 1460—08	Specification for Shielded Transition Couplings for Use with Dissimilar DWV Pipe and Fittings Above Ground
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
C 1540—09a	Specification for Heavy Duty Shielded Couplings Joining Hubless Cast-iron Soil Pipe and Fittings
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
D 1527—99(2005)	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe, Schedules 40 and 80
D 1785—06	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80 and 120
D 1869—95(2005)e1	Specification for Rubber Rings for Asbestos-cement Pipe
D 2235—04	Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings
D 2239—03	Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter
D 2241—09	Specification for Poly (Vinyl Chloride) (PVC) Pressure-rated Pipe (SDR-Series)
D 2282—(2005)99e01	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe (SDR-PR)
D 2464—06	Specification for Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
D 2466—06	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40
D 2467—06	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80
D 2468—96a	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe Fittings, Schedule 40
D 2564—04 (2009) e01	Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems
D 2609—02 (2008)	Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe.
D 2657—07	Practice for Heat Fusion-joining of Polyolefin Pipe and Fitting
D 2661—08	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings
D 2665—09	Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings
D 2672—96a(2009)	Specification for Joints for IPS PVC Pipe Using Solvent Cement .

D 2683—10	Standard Specification for Socket-type Polyethylene fittings for Outside Diameter-controlled Polyethylene Pipe and Tubing
D 2729—03	Specification for Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings
D 2737—03	Specification for Polyethylene (PE) Plastic Tubing
D 2751—05	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Sewer Pipe and Fittings
D 2846/D 2846M—09b	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot and Cold Water Distribution Systems
D 2855—96(2010)	Standard Practice for Making Solvent-cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings D 2949—01ae01 Specification for 3.25-in Outside Diameter Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings
D 3034—08	Specification for Type PSM Poly (Vinyl Chloride) (PVC) Sewer Pipe and Fittings
D 3035-08	Standard Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter
D 3139—98(2005)	Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals
D 3212—07	Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals
D 3261—10a	Standard Specification for Butt Heat Fusion Polyethylene (PE) Plastic fittings for Polyethylene (PE) Plastic Pipe and Tubing
D 3311—06a09a	Specification for Drain, Waste and Vent (DWV) Plastic Fittings Patterns
D 4068—09	Specification for Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-containment Membrane
D 4551—96(2008) e1	Specification for Poly (Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-containment Membrane
F 405—05	Specification for Corrugated Polyethylene (PE) Tubing and Fittings
F 409—02(2008)	Specification for Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings .
F 437—09	Specification for Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
F 438—09	Specification for Socket-type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 40
F 439—09	Standard Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80
F 441/F 441M—09	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80
F 442/F 442M—09	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR)
F 477—10	Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe
F 493—10	Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings

F 628—08	Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe with a Cellular Core
F 656—10	Specification for Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings
F 714—08	Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter
F 876—10	Specification for Cross-linked Polyethylene (PEX) Tubing
F 877—07	Specification for Cross-linked Polyethylene (PEX) Plastic Hot and Cold Water Distribution Systems
F 891—10	Specification for Coextruded Poly (Vinyl Chloride) (PVC) Plastic Pipe with a Cellular Core .
F 1055—98(2006)	Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing
F 1281—07	Specification for Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Pressure Pipe
F 1282—10	Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe
F 1412—09	Specification for Polyolefin Pipe and Fittings for Corrosive Waste Drainage
F 1488—09	Specification for Coextruded Composite Pipe
F 1673—10	PolyvinylideneFluoride (PVDF) Corrosive Waste Drainage Systems
F 1807—07	Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing
F 1866—07	Specification for Poly (Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings .
F 1960—10	Specification for Cold Expansion Fittings with PEX Reinforcing Rings for use with Cross-linked Polyethylene (PEX) Tubing.
F 1974—09	Specification for Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene Composite Pressure Pipe
F 1986—01(2006)	Specification for Multilayer Pipe, Type 2, Compression Fittings and Compression Joints for Hot and Cold Drinking Water Systems.
F 2080—09	Specifications for Cold-expansion Fittings with Metal Compression-sleeves for Cross-linked Polyethylene (PEX) Pipe
F 2098—08	Standard specification for Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing to Metal Insert Fittings
F 2159—10	Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing
F 2262—09	Specification for Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene Tubing OD Controlled SDR9

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
F 2389—10	Specification for Pressure-rated Polypropylene (PP) Piping Systems
F 2434—09	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 (PEXAL-PEX) Tubing.

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

<b>Standard Referenced</b>	<b>Title</b>
A5.8—04	Specifications for Filler Metals for Brazing and Braze Welding

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

<b>Standard Referenced</b>	<b>Title</b>
C104/A21.4-08	Standard for Cement-mortar Lining for Ductile-iron Pipe and Fittings for Water
C110/A21.10—08	Standard for Ductile-iron and Gray-iron Fittings, 3 Inches through 48 Inches, for Water
C111/A21.11-06	Standard for Rubber-gasket Joints for Ductile-iron Pressure Pipe and Fittings
C115/A21.15—05	Standard for Flanged Ductile-iron Pipe with Ductile-iron or Gray-iron Threaded Flanges
C151/A21.51—09	Standard for Ductile-iron Pipe, Centrifugally Cast for Water
C153/A21.53—06	Standard for Ductile-iron Compact Fittings for Water Service
C510—07	Double Check Valve Backflow Prevention Assembly
C511—07	Reduced-pressure Principle Backflow Prevention Assembly
C651—05	Disinfecting Water Mains
C652—02	Disinfection of Water-storage Facilities

## **CISPI** Cast Iron Soil Pipe Institute

5959 Shallowford Road, Suite 419  
Chattanooga, TN 37421

<b>Standard Referenced</b>	<b>Title</b>
301—09	Specification for Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications
310—09	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

## **CSA** Canadian Standards Association

5060 Spectrum Way.  
Mississauga, Ontario, Canada L4W 5N6

<b>Standard Referenced</b>	<b>Title</b>
B45.1—02 ( <i>R2008</i> )	Ceramic Plumbing Fixtures.
B45.2—02 ( <i>R2008</i> )	Enameled Cast-iron Plumbing Fixtures
B45.3—02 ( <i>R2008</i> )	Porcelain Enameled Steel Plumbing Fixtures
B45.4—02 ( <i>R2008</i> )	Stainless-steel Plumbing Fixtures
B45.5—02 ( <i>R2008</i> )	Plastic Plumbing Fixtures
B45.9—99 ( <i>R2008</i> )	Macerating Systems and Related Components
B64.1.2—07	Vacuum Breakers, Pressure Type (PVB)
B64.2.1—07	Vacuum Breakers, Hose Connection Type (HCVB) with Manual Draining Feature
B64.2.1.1—07	Vacuum Breakers, Hose Connection Dual Check Type (HCDVB)
B64.4.1—07	Backflow Preventers, Reduced Pressure Principle Type for Fire Sprinklers (RPF)
B64.5—07	Backflow Preventers, Double Check Type (DCVA)
B64.5.1—07	Backflow Preventers, Double Check Type for Fire Systems (DCVAF)
B64.6—07	Backflow Preventers, Dual Check Valve Type (DuC)
B64.7—07	Vacuum Breakers, Laboratory Faucet Type (LFVB)
B64.10/B64.10.1—07	Manual for the Selection and Installation of Backflow Prevention Devices/Manual for the Maintenance and Field Testing of Backflow Prevention Devices
B79—08	Floor, Area and Shower Drains, and Cleanouts for Residential Construction
B125—01	Plumbing Fittings

B125.3—2005	Plumbing Fittings
B137.1-09	Polyethylene Pipe, Tubing and Fittings for Cold Water Pressure Services
B137.2-09	PVC Injection-moulded Gasketed Fittings for Pressure Applications
B137.3-09	Rigid Poly (Vinyl Chloride) (PVC) Pipe for Pressure Applications
B137.5-09	Cross-linked Polyethylene (PEX) Tubing Systems for Pressure Applications—with Revisions through September 1992
B137.6-09	CPVC Pipe, Tubing and Fittings for Hot and Cold Water Distribution Systems— with Revisions through May 1986 B137.11—02 Polypropylene (PP-R) Pipe and Fittings for Pressure Applications
B181.1—06	ABS Drain, Waste and Vent Pipe and Pipe Fittings
B181.2—06	PVC Drain, Waste, and Vent Pipe and Pipe Fittings— with Revisions through December 1993
B182.1—06	Plastic Drain and Sewer Pipe and Pipe Fittings
B182.2—06	PVC Sewer Pipe and Fittings (PSM Type)
B182.4—06	Profile PVC Sewer Pipe and Fittings
B182.6—06	Profile Polyethylene Sewer Pipe and Fittings for Leak-proof Sewer Applications
B182.8—06	Profile Polyethylene Storm Sewer and Drainage Pipe and Fittings
CAN/CSA-A257.1M—09	Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings
CAN/CSA-A257.2M—09	Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings
CAN/CSA-A257.3M—09	Joints for Circular Concrete Sewer and Culvert Pipe, Manhole Sections and Fittings Using Rubber Gaskets
CAN/CSA-B64.1.1—07	Vacuum Breakers, Atmospheric Type (AVB)
CAN/CSA-B64.2—07	Vacuum Breakers, Hose Connection Type (HCVB).
CAN/CSA-B64.2.2—07	Vacuum Breakers, Hose Connection Type (HCVB) with Automatic Draining Feature
CAN/CSA-B64.3—07	Backflow Preventers, Dual Check Valve Type with Atmospheric Port (DCAP)
CAN/CSA-B64.4—07	Backflow Preventers, Reduced Pressure Principle Type (RP)
CAN/CSA-B64.10—07	Manual for the Selection, Installation, Maintenance and Field Testing of Backflow Prevention Devices
CAN/CSA-B137.9—09	Polyethylene/Aluminum/Polyethylene Composite Pressure Pipe Systems
CAN/CSA-B137.10M—09	Cross-linked Polyethylene/Aluminum/Polyethylene Composite Pressure Pipe Systems
CAN/CSA-B181.3—06	Polyolefin Laboratory Drainage Systems
CAN/CSA-B182.4—06	Profile PVC Sewer Pipe and Fittings
CAN/CSA-B602—10	Mechanical Couplings for Drain, Waste and Vent Pipe and Sewer Pipe

## ICC International Code Council, Inc.

500 New Jersey Ave, NW 6th Floor  
Washington, DC 20001

### Standard Referenced

### Title

IFGC—09	International Fuel Gas Code ( <i>including ICC Emergency Amendment changing IFGC Sections 406.7</i> )
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## ISEA International Safety Equipment Association

1901 N. Moore Street, Suite 808  
Arlington, VA 22209

### Standard Referenced

### Title

Z358.1—09	Emergency Eyewash and Shower Equipment
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## NFPA National Fire Protection Association

1 Batterymarch Park  
Quincy, MA 02169-7471

### Standard Referenced

### Title

70— <del>H</del> <u>14</u>	National Electrical Code Gas and Vacuum Systems
99C—05	

## NSF NSF International

789 Dixboro Road  
Ann Arbor, MI 48105

### Standard Referenced

### Title

3—2009	Commercial Warewashing Equipment
14—2010	Plastic Piping System Components and Related Materials

18—2009	Manual Food and Beverage Dispensing Equipment
42—2009	Drinking Water Treatment Units—Aesthetic Effects
44—2009	Residential Cation Exchange Water Softeners
53—2009e	Drinking Water Treatment Units—Health Effects.
58—2009	Reverse Osmosis Drinking Water Treatment Systems
61—2010a	Drinking Water System Components—Health Effects
62—2009	Drinking Water Distillation Systems
372-2010	<i>Drinking Water System Components – Lead Content</i>

## **PDI** Plumbing and Drainage Institute

800 Turnpike Street, Suite 300  
North Andover, MA 01845

### **Standard Referenced**

### **Title**

G101(2010)	Testing and Rating Procedure for Grease Interceptors with Appendix of Sizing and Installation Data
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## **UL** Underwriters Laboratories, Inc.

333 Pfingsten Road  
Northbrook, IL 60062-2096

### **Standard Referenced**

### **Title**

UL 508—99	Industrial Control Equipment with Revision through July 2005
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Effective: 01/01/2015

Five Year Review (FYR) Dates: 11/01/2016

CERTIFIED ELECTRONICALLY

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Certification

11/20/2014

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Date

Promulgated Under: 119.03  
Statutory Authority: 3781.10(A)  
Rule Amplifies: 3781.10, 3781.11, 3791.04  
Prior Effective Dates: 3/1/98, 4/1/99, 12/1/00, 1/1/02, 1/1/04, 3/1/05, 9/6/05,  
3/1/06, 7/1/07, 1/1/08, 3/31/08(Emer.), 6/24/08,  
1/1/09, 11/1/11, 3/1/13, 7/1/14