
NEVADA NATIONAL SECURITY SITES (NNSS)

NNSS NEW BUILDINGS AND INFRASTRUCTURE

CODE OF RECORD

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This document has been reviewed by a DC/RO and has been determined to be UNCLASSIFIED, not UCNl, and contains no CUI based on current classification guidance. This review does not constitute a review for CUI outside of classification guidance.

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TABLE OF CONTENTS

REVISION HISTORY	6
OVERVIEW	6
SCOPE.....	6
COMPANY DIRECTIVES (CD), PROGRAM DESCRIPTIONS (PD), AND REPORTS	7
CODE OF FEDERAL REGULATIONS (CFR)	7
U.S. DEPARTMENT OF ENERGY (DOE)	8
ALUMINUM ASSOCIATION (AA).....	8
AA/AMERICAN NATIONAL STANDARDS INSTITUTE (AA/ANSI).....	8
AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA).....	8
AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) ..	9
AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH)	9
AMERICAN CONCRETE INSTITUTE (ACI).....	9
AMERICAN GEAR MANUFACTURERS ASSOCIATION (AGMA)	10
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)	10
AMERICAN IRON AND STEEL INSTITUTE (AISI)	11
AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)	11
ANSI/AMERICAN SOCIETY OF SAFETY PROFESSIONALS (ANSI/ASSP)	11
ANSI/BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (ANSI/BHMA).....	12
ANSI/CANADIAN STANDARDS ASSOCIATION (ANSI/CSA)	12
ANSI/HUMAN FACTORS AND ERGONOMICS SOCIETY (ANSI/HFES).....	12
ANSI/INTERNATIONAL ELECTRICAL TESTING ASSOCIATION (ANSI/NETA).....	12
ANSI/STEEL DOOR INSTITUTE (ANSI/SDI)	12
ANSI/TELECOMMUNICATIONS INDUSTRY ASSOCIATION (ANSI/TIA).....	12
AMERICAN SOCIETY OF CIVIL ENGINEERS/STRUCTURAL ENGINEERING INSTITUTE (ASCE/SEI)	13

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)	13
AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)	14
ASME/CANADIAN STANDARDS ASSOCIATION (ASME/CSA)	16
AMERICAN SOCIETY OF SANITARY ENGINEERING/ANSI (ASSE/ANSI)	17
AMERICAN WELDING SOCIETY (AWS)	18
AMERICAN WATER WORKS ASSOCIATION (AWWA).....	19
BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL (BICSI)	20
BUILDING OWNERS AND MANAGERS ASSOCIATION (BOMA).....	20
COUNCIL ON ENVIRONMENTAL QUALITY (CEQ)	20
COMPRESSED GAS ASSOCIATION (CGA).....	20
CAST IRON SOIL PIPE INSTITUTE (CISPI)	20
CONCRETE REINFORCING STEEL INSTITUTE (CRSI)	21
ENVIRONMENTAL PROTECTION AGENCY (EPA)	21
FACTORY MUTUAL GLOBAL (FM)	21
INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS (IAPMO).....	21
INTERNATIONAL CODE COUNCIL (ICC)	21
INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)	21
ILLUMINATING ENGINEERING SOCIETY (IES)	24
METAL FRAMING MANUFACTURERS ASSOCIATION (MFMA)	24
MANUFACTURERS STANDARDIZATION SOCIETY (MSS)	24
NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION/NATIONAL ELECTRICAL INSTALLATION STANDARDS (NECA/NEIS).....	25
NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA).....	25
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).....	27
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)	29

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST)	29
NATIONAL SANITATION FOUNDATION (NSF/ANSI).....	29
PRECAST/PRESTRESSED CONCRETE INSTITUTE (PCI).....	29
THE PLUMBING AND DRAINING INSTITUTE (PDI)	29
PIPE FABRICATION INSTITUTE (PFI).....	29
RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC)	30
SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA)	30
THE SOCIETY FOR PROTECTIVE COATINGS (SSPC)	30
UNDERWRITERS LABORATORIES (UL) STANDARD FOR SAFETY.....	31

REVISION HISTORY

Revision	Date	Description
0	December 2025	Initial Issue.

OVERVIEW

The Nevada National Security Sites (NNSS) New Buildings and Infrastructure Code of Record (COR) is a stand-alone document that includes consensus codes and standards that flow down from applicable Federal and State laws, as defined in contracts and company commitments. This document provides a list of the codes and standards that were in effect at the time a structure, system, or component (SSC) was planned, designed, and accepted by the U.S. Department of Energy (DOE) so that a record is available for configuration management. This COR provides an overview of documents that provide requirements, implement requirements, or describe site and company specific processes used during planning, design, and construction at the NNSS, as applicable. The Designer of Record for an SSC is responsible for determining what is applicable from this COR; maintaining a basis of design or similar document consistent with this COR; providing a list of additional codes and standards that are not included in this COR but used for design; and requesting interpretations or version modifications from the NNSS Authorities Having Jurisdiction (AHJ).

SCOPE

This COR is specific to new General Service facilities and the new or expanded infrastructure required to support construction and operation at the NNSS. These facilities are currently planned in, but not limited to, Area 23 in Mercury, Area 06 outside of the Device Assembly Facility, and Area 01 as part of the new Forward Area Mission Complex near PULSE. This COR is not applicable for changes to existing SSCs at the NNSS (except for those required to support the new facilities), for design or construction outside of the NNSS boundaries, or for facilities designed under the ProtoSTAR initiative.

The COR will be maintained under configuration control and revisions, when required, will be issued for record and use. In the event of a conflict between codes and standards, the more restrictive shall control. Use of less restrictive requirements shall be vetted and approved by the NNSS AHJ.

Material standards, such as those produced by the American Society for Testing and Materials, are not considered part of the COR unless COR documents invoke specific versions of these standards.

Standards, publications, practices, and guides that are not listed herein but which are referenced or invoked in the listed documents are inherently considered part of this COR.

COMPANY DIRECTIVES (CD), PROGRAM DESCRIPTIONS (PD), AND REPORTS

CD-0000.001, *Design Engineering for Facility and Infrastructure Structures, System, and Components (SSC)*, Revision 2

CD-0000.008, *Building Authority Program*, Revision 1

CD-0280.026, *Electrical Safety*, Revision 4

CD-0280.037, *Lockout/Tagout*, Revision 2

CD-0450.012, *UPS System Life Cycle Management*, Revision 1

CD-1200.003, *Activity Level Hazard Analysis Process*, Revision 4

CD-2120.017, *Fire Protection Program*, Revision 9

CD-2120.040, *Lightning Protection Requirements*, Revision 2

CD-5400.003, *Beneficial Occupancy Inspection Process*, Revision 3

CD-5400.004, *Engineering Document Control*, Revision 0

CD-SENG.003, *Numbering and Labeling of Structures, Systems, and Components (SSC)*, Revision 6

CODE OF FEDERAL REGULATIONS (CFR)

10 CFR 830, *Nuclear Safety Management*

10 CFR 851, *Worker Safety and Health Program*

16 CFR 1201, *Safety Standard for Architectural Glazing Materials*

28 CFR 36, *Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities*

29 CFR 1910, *Occupational Safety and Health Standards*

29 CFR 1926, *Safety and Health Regulations for Construction*

36 CFR 1191, *Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines*

40 CFR 59, *National Volatile Organic Compound Emission Standards for Consumer and Commercial Products*

40 CFR 141, *National Primary Drinking Water Regulations*

41 CFR 102, *Federal Management Regulation*

U.S. DEPARTMENT OF ENERGY (DOE)

DOE-HDBK-1092-2013, *Electrical Safety*

DOE-HDBK-1140-2001, *Human Factors/Ergonomics Handbook for the Design for Ease of Maintenance*

DOE O 231.1B, Admin Change 1, *Environment, Safety and Health Reporting*

DOE O 413.3B, Change 7, *Program and Project Management of the Acquisition of Capital Assets*

DOE O 414.1E, *Quality Assurance*

DOE O 420.1C, Change 3, *Facility Safety*

DOE O 436.1A, *Departmental Sustainability*

DOE O 473.1A, *Physical Protection Program*

DOE-STD-1020-2016, *Natural Phenomena Hazards Analysis and Design Criteria for DOE Facilities*

DOE-STD-1066-2023, *Fire Protection*

National Nuclear Security Administration (NNSA) Handbook, *Federal Guiding Principles for High Performance and Sustainable Buildings: Existing Buildings*

ALUMINUM ASSOCIATION (AA)

AA ADM1, *Aluminum Design Manual*, 2020

AA/AMERICAN NATIONAL STANDARDS INSTITUTE (AA/ANSI)

AA ANSI H35.1/H35.1M, *American National Standard Alloy and Temper Designation Systems for Aluminum*, 2024

AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA)

AAMA 1503, *Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections*, 2009

AAMA 2604, *Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix)*, 2022

AAMA 505, *Dry Shrinkage and Composite Performance Thermal Cycling Test Procedure*, 2017

AAMA GDSG-1, *Glass Design for Sloped Glazing and Skylights*, 2019

AAMA TIR-A8, *Structural Performance of Composite Thermal Barrier Framing Systems*, 2016

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO)

AASHTO M 147, *Standard Specification for Materials for Aggregate and Soil–Aggregate Subbase, Base, and Surface Courses*, 2017 (R2025)

AASHTO T 99, *Standard Method of Test for Moisture–Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in.) Drop*, 2025

AASHTO T 104, *Standard Method of Test for Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate*, 2022

AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH)

ACGIH 2097, *Industrial Ventilation: A Manual of Recommended Practice for Design*, 2013

AMERICAN CONCRETE INSTITUTE (ACI)

ACI 117, *Specification for Tolerances for Concrete Construction and Materials and Commentary*, 2010 (R2015)

ACI 121R, *Guide for Concrete Construction Quality Systems in Conformance with ISO 9001*, 2008

ACI PRC 211.1, *Selecting Proportions for Normal-Density and High-Density Concrete—Guide*, 2022

ACI 214R, *Guide to Evaluation of Strength Test Results of Concrete*, 2011

ACI 301, *Specifications for Concrete Construction*, 2020

ACI 302.1R, *Guide to Concrete Floor and Slab Construction*, 2015

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ACI 304.2R, *Guide to Placing Concrete by Pumping Methods*, 2017

ACI 304.3R, *Heavyweight Concrete: Measuring, Mixing, Transporting, and Placing*, 2020

ACI 305.1, *Specification for Hot Weather Concreting*, 2014 (R2020)

ACI 305R, *Guide to Hot Weather Concreting*, 2020

ACI 306R, *Guide to Cold Weather Concreting*, 2016

ACI 306.1, *Standard Specification for Cold Weather Concreting*, 1990 (R2002)

ACI 308R, *Guide to External Curing of Concrete*, 2016

ACI SPEC-308.1, *External Curing of Cast-in-Place Concrete - Specification*, 2023

ACI 309R, *Guide for Consolidation of Concrete*, 2005

ACI 311.4R, *Guide for Concrete Inspection*, 2005

ACI 315R, *Guide to Presenting Reinforcing Steel Design Details*, 2018

ACI 318, *Building Code Requirements for Structural Concrete and Commentary*, 2014 (not the latest)

ACI 347R, *Guide to Formwork for Concrete*, 2014 (R2021)

ACI 423.7, *Specification for Unbonded Single-Strand Tendon Materials*, 2014

ACI 355.2, *Qualification of Post-Installed Mechanical Anchors in Concrete and Commentary*, 2019

ACI 355.4, *Post-Installed Adhesive Anchors in Concrete—Qualification Requirements and Commentary*, 2024

ACI MNL-2, *Manual of Concrete Inspection*, 2019

ACI MNL-66, *ACI Detailing Manual*, 2020

AMERICAN GEAR MANUFACTURERS ASSOCIATION (AGMA)

AGMA 6013-B16, *Standard for Industrial Enclosed Gear Drives*, 2016 (R2021)

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

AISC Design Guide 11, *Vibrations of Steel-Framed Structural Systems Due to Human Activity*, Second Edition, 2016

AISC 207, *Standard for Certification Programs*, 2023

AISC 303, *Code of Standard Practice for Steel Buildings and Bridges*, 2022

AISC 325, *Steel Construction Manual*, 14th Edition, 2011 (not the latest)

AISC 341, *Seismic Provisions for Structural Steel Buildings*, 2010 (not the latest)

AISC 348, *RCSC Specification for Structural Joints Using High Strength Bolts*, 2020

AISC 358, *Prequalified Connections for Special and Intermediate Steel Moment Frames for Seismic Applications*, 2022

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AMERICAN IRON AND STEEL INSTITUTE (AISI)

AISI S100, *North American Specification for the Design of Cold-Formed Steel Structural Members*, 2012 Edition (not the latest)

AISI S200, *North American Standard for Cold-Formed Steel Framing – General Provisions*, 2012

AISI S202, *Code of Standard Practice for Cold-Formed Steel Structural Framing*, 2020

AISI S210, *North American Standard for Cold-Formed Steel Framing - Floor and Roof System Design*, 2007 (R2012)

AISI S211, *North American Standard for Cold-Formed Steel Framing - Wall Stud Design*, 2007 (R2012)

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AISI S220, *North American Standard for Cold-Formed Steel Framing – Nonstructural Members*, 2011 (not the latest)

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI A118.3, *American National Standard Specifications for Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy and Water Cleanable Tile-Setting Epoxy Adhesive*, 2021

ANSI A137.1, *American National Standard Specifications for Ceramic Tile*, 2022

ANSI C57.12.91, *IEEE Standard Test Code for Dry-Type Distribution and Power Transformers*, 2020

ANSI C84.1, *Electric Power Systems and Equipment – Voltage Ratings (60 Hertz)*, 2020

ANSI/AMERICAN SOCIETY OF SAFETY PROFESSIONALS (ANSI/ASSP)

ANSI/ASSP A10.13, *Safety Requirements for Steel Erection*, 2011 (R2017)

ANSI/ASSP Z9.2, *Fundamentals Governing the Design and Operation of Local Exhaust Ventilation Systems*, 2018

ANSI/BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (ANSI/BHMA)

ANSI/BHMA A156.1, *Standard for Butts and Hinges*, 2021

ANSI/BHMA A156.2, *Standard for Bored and Preassembled Locks and Latches*, 2022

ANSI/BHMA A156.5, *Standard for Cylinders and Input Devices for Locks*, 2020

ANSI/BHMA A156.12, *Standard for Interconnected Locks*, 2022

ANSI/BHMA A156.13, *Standard for Mortise Locks and Latches*, 2022

ANSI/BHMA A156.115, *American National Standard for Hardware Preparation in Steel Doors and Steel Frames*, 2016

ANSI/CANADIAN STANDARDS ASSOCIATION (ANSI/CSA)

ANSI Z21.22/CSA 4.4, *Relief Valves for Hot Water Supply Systems*, 2015 (R2025)

ANSI/HUMAN FACTORS AND ERGONOMICS SOCIETY (ANSI/HFES)

HFES 100, *Human Factors Engineering of Computer Workstations*, 2007

ANSI/INTERNATIONAL ELECTRICAL TESTING ASSOCIATION (ANSI/NETA)

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ANSI/TIA 568.0-E, *Generic Telecommunications Cabling for Customer Premises*, 2020

ANSI/TIA-568.1-D, *Commercial Building Telecommunications Infrastructure Standard*, 2015

ANSI/TIA-568.1-E-1, *Commercial Building Telecommunications Infrastructure Standard Addendum 1: Balanced Single Twisted-Pair Cabling; Cabling Requirements for Wireless Access Points*, 2023

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ANSI/TIA-568.4, *Broadband Coaxial Cabling and Components Standard*, 2017

ANSI/TIA-569-E-1, *Telecommunications Pathways and Spaces Addendum 1 – Revised Temperature and Humidity Requirements*, 2022

ANSI/TIA-598-D-1, *Optical Fiber Color Coding in Cable- Addendum 1, Additional Colors for Elements 13-16*, 2018

ANSI/TIA-604-10-D, *FOCIS 10 Fiber Optic Connector Intermateability Standard-Type LC*, 2025

ANSI/TIA-606-D, *Administration Standard for Telecommunications Infrastructure*, 2021

ANSI/TIA-607-E, *Telecommunications Bonding and Grounding (Earthing) for Customer Premises*, 2024

ANSI/TIA-758-B, *Customer-Owned Outside Plant Telecommunications Infrastructure Standard*, 2012

AMERICAN SOCIETY OF CIVIL ENGINEERS/STRUCTURAL ENGINEERING INSTITUTE (ASCE/SEI)

ASCE/SEI 7, *Minimum Design Loads for Buildings and Other Structures*, 2010 (not the latest)

ASCE/SEI 37, *Design Loads on Structures During Construction*, 2014

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS (ASHRAE)

ASHRAE Handbook - *Fundamentals*, 2025

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ASHRAE Handbook - *HVAC Systems and Equipment*, 2024

ASHRAE Guideline 0, *The Commissioning Process*, 2019

ASHRAE Guideline 1.1, *Application of the Commissioning Process to New HVAC&R Systems*, 2025

ASHRAE Standard 15, *Safety Standard for Refrigeration Systems*, 2024

ASHRAE Standard 33, *Methods of Testing Forced Circulation Air-Cooling and Air-Heating Coils*, 2016

ASHRAE Standard 34, *Designation and Safety Classification of Refrigerants*, 2024

ASHRAE Standard 52.2, *Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size*, 2025

ASHRAE Standard 55, *Thermal Environmental Conditions for Human Occupancy*, 2023

ASHRAE Standard 62.1, *Ventilation and Acceptable Indoor Air Quality*, 2022

ASHRAE Standard 70, *Method of Testing the Performance of Air Outlets and Air Inlets*, 2023

ASHRAE Standard 90.1, *Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings*, 2022

ASHRAE Standard 111, *Measurement, Testing, Adjusting, and Balancing of Building HVAC Systems*, 2024

ASHRAE Standard 135, *BACnet - A Data Communication Protocol for Building Automation and Control Networks*, 2024

ASHRAE Standard 140, *Method of Test for Evaluating Building Performance Simulation Software*, 2023

ASHRAE Standard 189.1, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings*, 2023

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

ASME A13.1, *Scheme for the Identification of Piping Systems*, 2023

ASME A112.1.2, *Air Gaps in Plumbing Systems (For Plumbing Fixtures and Water-Connected Receptors)*, 2012 (R2022)

ASME A112.3.1, *Stainless Steel Drainage Systems for Sanitary DWV, Storm, and Vacuum Applications, Above and Below-Ground*, 2007 (R2022)

ASME A112.4.3, *Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System*, 1999 (R2024)

ASME A112.6.1M, *Floor-Affixed Supports for Off-the-Floor Plumbing Fixtures for Public Use*, 1997 (R2017)

ASME A112.14.1, *Backwater Valves*, 2003 (R2022)

ASME A112.18.1, *Plumbing Supply Fittings*, 2024

ASME A112.18.3, *Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings*, 2002 (R2022)

ASME A112.19.2, *Ceramic Plumbing Fixtures*, 2024

ASME A112.19.3, *Stainless Steel Plumbing Fixtures*, 2022

ASME A112.19.5, *Flush Valves and Spuds for Water Closets, Urinals, and Tanks*, 2022

ASME A112.21.3M, *Hydrants for Utility and Maintenance Use*, 1985 (R2022)

ASME B1.1, *Unified Inch Screw Threads (UN, UNR, and UNJ Thread Forms)*, 2024

ASME B1.20.1, *Pipe Threads, General Purpose, Inch*, 2013 (R2018)

ASME B1.20.7, *Hose Coupling Screw Threads, Inch*, 1991 (R2024)

ASME B16.1, *Gray Iron Pipe Flanges and Flanged Fittings Classes 25, 125, and 250*, 2020

ASME B16.3, *Malleable Iron Threaded Fittings Classes 150 and 300*, 2021

ASME B16.4, *Gray Iron Threaded Fittings*, 2021

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ASME B16.9, *Factory-Made Wrought Buttwelding Fittings*, 2024

ASME B16.10, *Face-to-Face and End-to-End Dimensions of Valves*, 2022

ASME B16.11, *Forged Fittings, Socket-Welding and Threaded*, 2021

ASME B16.12, *Cast Iron Threaded Drainage Fittings*, 2019

ASME B16.18, *Cast Copper Alloy Solder Joint Pressure Fittings*, 2025

ASME B16.20, *Metallic Gaskets for Pipe Flanges*, 2023

ASME B16.21, *Nonmetallic Flat Gaskets for Pipe Flanges*, 2021

ASME B16.22, *Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings*, 2021

ASME B16.23, *Cast Copper Alloy Solder Joint Drainage Fittings: DWV*, 2021

ASME B16.24, *Cast Copper Alloy Pipe Flanges, Flanged Fittings, and Valves - Classes 150, 300, 600, 900, 1500, and 2500*, 2021

ASME B16.25, *Buttwelding Ends*, 2022

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ASME B16.34, *Valves – Flanged, Threaded, and Welding End*, 2025

ASME B16.36, *Orifice Flanges*, 2025

ASME B16.39, *Malleable Iron Threaded Pipe Unions - Classes 150, 250, and 300*, 2025

ASME B16.42, *Ductile Iron Pipe Flanges and Flanged Fittings Classes 150 and 300*, 2021

ASME B16.45, *Cast Iron Fittings for Sovent Drainage Systems*, 1998 (R2006)

ASME B18.2.1, *Square, Hex, Heavy Hex, and Askew Head Bolts and Hex, Heavy Hex, Hex Flange, Lobed Head, and Lag Screws (Inch Series)*, 2012 (R2021)

ASME B18.2.2, *Nuts for General Applications: Machine Screw Nuts; and Hex, Square, Hex Flange, and Coupling Nuts (Inch Series)*, 2022

ASME B31.1, *Power Piping*, 2024

ASME B31.5, *Refrigeration Piping and Heat Transfer Components*, 2022

ASME B31.8, *Gas Transmission and Distribution Piping Systems*, 2025

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ASME B36.10M, *Welded and Seamless Wrought Steel Pipe*, 2018

ASME B36.19M, *Stainless Steel Pipe*, 2018

ASME B40.100, *Pressure Gauges and Gauge Attachments*, 2022

ASME B40.200, *Thermometers, Direct Reading and Remote Reading*, 2008 (R2013)

ASME Y14.5, *Dimensioning and Tolerancing*, 2018 (R2024)

ASME/CANADIAN STANDARDS ASSOCIATION (ASME/CSA)

ASME A112.6.3/CSA B79.3, *Floor Drains*, 2022

ASME A112.6.4/CSA B79.4, *Roof, Deck, and Balcony Drains*, 2022

ASME A112.18.2/CSA B125.2, *Plumbing Waste Fittings*, 2020 (R2025)

ASME A112.18.6/CSA B125.6, *Flexible Water Connectors*, 2017 (R2021)

ASME A112.19.1/CSA B45.2, *Enamelled Cast Iron and Enamelled Steel Plumbing Fixtures*, 2024

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ASSE 1010, *Performance Requirements for Water Hammer Arresters*, 2021

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ASSE 1013, *Performance Requirements for Reduced Pressure Principle Backflow Prevention Assemblies*, 2021

ASSE 1015, *Performance Requirements for Double Check Backflow Prevention Assemblies*, 2021

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ASSE 1017, *Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems*, 2023

ASSE 1018, *Performance Requirements for Trap Seal Primer Valves - Potable Water Supplied*, 2023

ASSE 1019, *Performance Requirements for Wall Hydrant with Backflow Protection and Freeze Resistance*, 2023

ASSE 1020, *Performance Requirements for Pressure Vacuum Breaker Assemblies*, 2020 (R2025)

ASSE 1022, *Performance Requirements for Backflow Preventer for Beverage Dispensing Equipment (for Carbonated and Non-carbonated)*, 2023

ASSE 1024, *Performance Requirements for Dual Check Backflow Preventers*, 2023

ASSE 1032, *Performance Requirements for Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type, and Non-Carbonated Beverage Dispensers*, 2023

ASSE 1035, *Performance Requirements for Laboratory Faucet Backflow Preventers*, 2020 (R2025)

ASSE 1037, *Performance Requirements for Pressurized Flushing Devices for Plumbing Fixtures*, 2015 (R2020)

ASSE 1044, *Performance Requirements for Trap Seal Primer - Drainage Types and Electric Design Types*, 2023

ASSE 1047, *Performance Requirements for Reduced Pressure Detector Backflow Prevention Assemblies*, 2021

ASSE 1048, *Performance Requirements for Double Check Detector Backflow Prevention Assemblies*, 2021

ASSE 1052, *Performance Requirements for Hose Connection Backflow Preventers*, 2023

ASSE 1056, *Performance Requirements for Spill Resistant Vacuum Breaker Assemblies*, 2013 (R2021)

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