

Part VI—Referenced Standards

CHAPTER 80 REFERENCED STANDARDS

User note:

About this chapter: This code contains numerous references to standards promulgated by other organizations that are used to provide requirements for materials and methods of construction. This chapter 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 102.7.

AASHTO

American Association of State Highway and Transportation Officials
444 North Capitol Street, NW, Suite 249
Washington, DC 20001

HB-17—2002: Specification for Highway Bridges, 17th Edition 2002
503.2.6

AFSI

Architectural Fabric Structures Institute
c/o Industrial Fabric Association International
1801 County Road B West
Roseville, MN 55113

ASI—77: Design and Standards Manual
3103.10.2

ANSI

American National Standards Institute
25 West 43rd Street, 4th Floor
New York, NY 10036

ANSI E1.21—2013: Entertainment Technology: Temporary Structures Used for Technical Production of Outdoor Entertainment Events
3105.1, 3105.4, 3105.5

API

American Petroleum Institute
1220 L Street, NW
Washington, DC 20005

Publ 2009—7th Edition (2002, R2012): Safe Welding and Cutting Practices in Refineries, Gas Plants and Petrochemical Plants
5706.7

Publ 2028 3rd Edition—(2002, R2010): Flame Arrestors in Piping Systems
5704.2.7.3.2

Publ 2201 5th Edition—(2003, R2010): Procedures for Welding or Hot Tapping on Equipment in Service
5706.7

RP 651—4th Edition (2014): Cathodic Protection of Aboveground Petroleum Storage Tanks
5706.7, 5706.7.1

RP 752—3rd Edition (2009): Management of Hazards Associated with Location of Process Plant Buildings, CMA Managers Guide
5706.7

RP 1604—3rd Edition (1996 R2010): Closure of Underground Petroleum Storage Tanks
5704.2.13

RP 1615—(1996) 6th Edition (2011): Installation of Underground-petroleum Storage Systems
5704.2.13.1.5, 5706.7

REFERENCED STANDARDS

API—continued

- RP 2001—9th Edition (2012): Fire Protection in Refineries, 8th Edition**
5706.7
- RP 2003—8th Edition (2015): Protection Against Ignitions Arising out of Static, Lightning and Stray Currents**
5706.7
- RP 2023—3rd Edition (2001, R2006): Guide for Safe Storage and Handling of Heated Petroleum-derived Asphalt Products and Crude-oil Residue**
5706.7, 5706.7.3
- Std 653—5th Edition (2018): Tank Inspection, Repair, Alteration and Reconstruction**
5706.7
- Std 2000—7th Edition (2014): Venting Atmosphere and Low-pressure Storage Tanks: Nonrefrigerated and Refrigerated**
5704.2.7.3.2
- Std 2015—8th Edition 2001 (2018): Requirements for Safe Entry and Clearing of Petroleum Storage Tanks**
5706.7, 5706.7.2
- Std 2350—4th Edition (2012): Overfill Protection for Storage Tanks in Petroleum Facilities, 3rd Edition**
5704.2.7.5.8, 5706.4.6, 5706.7

ASCE/SEI

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

- ASCE/SEI 24—20: Flood Resistant Design and Construction**
1203.1.8

ASHRAE

ASHRAE
1791 Tullie Circle NE
Atlanta, GA 30329

- 15—2019: Safety Standard for Refrigeration Systems**
608.1.1, 608.18.2
- 170—2017: Ventilation of Health Care Facilities**
1020.6

ASME

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

- A13.1—2020: Scheme for the Identification of Piping Systems**
3509.3, 5003.2.2.1, 5303.4.3, 5503.4.5, 5703.5.2
- A17.1—2019/CSA B44—19: Safety Code for Elevators and Escalators**
508.1.6, 604.2, 907.3.3, 1009.4.1
- A17.3—2017: Safety Code for Existing Elevators and Escalators**
1103.3.1, 1103.3.2
- B16.18—2018: Cast Copper-alloy Solder-joint Pressure Fittings**
909.13.1
- B16.22—2018: Wrought Copper and Copper-alloy Solder-joint Pressure Fittings**
909.13.1
- B31.1—2020: Power Piping**
5003.2.2, Table 5703.6.2
- B31.3—2020: Process Piping**
5003.2.2.2, Table 5703.6.2
- B31.4—2019: Pipeline Transportation Systems for Liquids and Slurries**
Table 5703.6.2
- B31.9—2020: Building Services Piping**
Table 5703.6.2, 5703.6.3, 5703.6.11

ASME—continued

BPVC—2019: ASME Boiler and Pressure Vessel Code (Sections I, II, IV, V & VI, VIII)

5003.2.1, 5303.2, 5303.3.2, 5503.2.6, 5503.4.3, 5503.7, 5704.2.13.1.5, 5806.3.1, 5806.4.1, 5806.4.8

ASSP

American Society of Safety Professionals
520 N. Northwest Highway
Park Ridge, IL 60068

ANSI/ASSP Z359.1—2020: The Fall Protection Code

1015.6, 1015.7

ASTM

ASTM International
100 Barr Harbor Drive, P.O. Box C700
West Conshohocken, PA 19428-2959

B42—15a: Specification for Seamless Copper Pipe, Standard Sizes

909.13.1

B43—15: Specification for Seamless Red Brass Pipe, Standard Sizes

909.13.1

B68/B68M—11: Specification for Seamless Copper Tube, Bright Annealed (Metric)

909.13.1

B88—16: Specification for Seamless Copper Water Tube

909.13.1

B251/B251M—2017: Specification for General Requirements for Wrought Seamless Copper and Copper-alloy Tube

909.13.1

B280—18: Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service

909.13.1

D56—16a: Test Method for Flash Point by Tag Closed Cup Tester

202

D86—17: Test Method for Distillation of Petroleum Products at Atmospheric Pressure

202

D92—2018: Test Method for Flash and Fire Points by Cleveland Open Cup Tester

202, 2401.2, 5001.1, 5104.1.1, 5104.1.2, 5701.2

D93—18: Test Method for Flash Point by Pensky-Martens Closed Up Tester

202

D323—15A: Test Method for Vapor Pressure of Petroleum Products (Reid Method)

202

D2859—16: Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials

804.3.3.1, 804.3.3.2

D3278—96(2011): Test Methods for Flash Point of Liquids by Small Scale Closed-cup Apparatus

202

E84—18b: Standard Test Method for Surface Burning Characteristics of Building Materials

202, 803.1, 803.1.2, 803.3, 803.5.2, 803.10, 803.12, 803.13, 804.1.1, 804.1.2, 804.2.4, 3305.9

E108—17: Standard Test Methods for Fire Tests of Roof Coverings

317.2, 317.3

E648—17a: Standard Test Method for Critical Radiant Flux of Floor-covering Systems Using a Radiant Heat Energy Source

804.3.1, 804.3.2, 804.4

E681—09(2015): Test Method for Concentration Limits of Flammability of Chemicals (Vapors and Gases)

202

E1354—17: Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter

304.3.2, 304.3.4, 318.1, 808.1, 808.2, 2310.5.3, 3305.2.3, 3305.9, 3603.4

E1529—16e1: Standard Test Method for Determining Effects of Large Hydrocarbon Pool Fires on Structural Members and Assemblies

5704.2.9.2.3

REFERENCED STANDARDS

ASTM—continued

- E1537—16: Test Method for Fire Testing of Upholstered Furniture**
805.1.1.2, 805.2.1.2, 805.3.1.2, 805.4.1.2
- E1590—17: Test Method for Fire Testing of Mattresses**
805.1.2.2, 805.2.2.2, 805.3.2.2.1, 805.4.2.2
- E1966—15: Standard Test Method for Fire-resistant Joint Systems**
202
- E2072—14: Standard Specification for Photoluminescent (Phosphorescent) Safety Markings**
1025.4
- E2404—17: Standard Practice for Specimen Preparation and Mounting of Textile, Paper or Polymeric (Including Vinyl) and Wood Wall or Ceiling Coverings, Facing and Veneers to Assess Surface Burning Characteristics**
803.5.1, 803.5.2, 803.12
- E2573—17: Standard Practice for Specimen Preparation and Mounting of Site-fabricated Stretch Systems to Assess Surface Burning Characteristics**
803.10
- E2579—15: Standard Practice for Specimen Preparation and Mounting of Wood Products to Assess Surface Burning Characteristics**
803.13
- E3082—17: Standard Test Methods for Determining the Effectiveness of Fire-retardant Treatments for Natural Christmas Trees**
806.1.4
- F1085—14: Standard Specification for Mattress and Box Springs for Use in Berths in Marine Vessels**
805.3.2.2.2
- F2006—17: Standard/Safety Specification for Window Fall Prevention Devices for Non-emergency Escape (Egress) and Rescue (Ingress) Windows**
1015.8
- F2090—17: Specification for Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanisms**
1015.8, 1015.8.1, 1031.2.1
- F2200—17: Standard Specification for Automated Vehicular Gate Construction**
503.5, 503.6

BHMA

Builders Hardware Manufacturers' Association
355 Lexington Avenue, 15th Floor
New York, NY 10017

- A156.10—2017: Power-operated Pedestrian Doors**
1010.3.2
- A156.19—2019: Power Assist and Low-energy Power-operated Doors**
1010.3.2
- A156.27—2019: Power- and Manual-operated Revolving Pedestrian Doors**
1010.3.1, 1010.3.1.1
- A156.38—2019: Low-energy Power-operated Sliding and Folding Doors**
1010.3.2

CA

State of California Department of Consumer Affairs
Bureau of Household Goods and Services
4244 South Market Court, Suite D
Sacramento, CA 95834-1243

- California Technical Bulletin 129—1992: Flammability Test Procedure for Mattresses for Use in Public Buildings**
805.1.2.2, 805.2.2.2, 805.3.2.2.1, 805.4.2.2
- California Technical Bulletin 133—1991: Flammability Test Procedure for Seating Furniture for Use in Public Occupancies**
805.1.1.2, 805.2.1.2, 805.4.1.2

CGA

Compressed Gas Association
14501 George Carter Way, Suite 103
Chantilly, VA 20151

- ANSI/CGA G-13—(2015): Storage and Handling of Silane and Silane Mixtures**
6404.1, 6404.2, 6405.3
- ANSI/CGA P-18—(2013): Standard for Bulk Inert Gas Systems**
5501.1
- C-7—(2014): Guide to Classification and Labeling of Compressed Gases**
5303.4.2, 5503.4.2
- P-1—(2015): Standard for Safe Handling of Compressed Gases in Containers**
5305.7
- S-1.1—(2011): Pressure Relief Device Standards—Part 1—Cylinders for Compressed Gases**
5303.3.2, 5503.2
- S-1.2—(2009): Pressure Relief Device Standards—Part 2—Portable Tanks for Compressed Gases**
5303.3.2, 5503.2
- S-1.3—(2008): Pressure Relief Device Standards—Part 3—Stationary Storage Containers for Compressed Gases**
5303.3.2, 5503.2
- V-1—(2013): Standard for Compressed Gas Cylinder Valve Outlet and Inlet Connections**
3505.2.1

CGR

Coast Guard Regulations
c/o Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402-9325

- 46 CFR Parts 30, 32, 35 & 39—1999: Shipping**
5706.8

CPSC

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

- 16 CFR Part 1500—2009: Hazardous Substances and Articles; Administration and Enforcement Regulations**
202, 5601.1.3
- 16 CFR Part 1500.41—2009: Method for Testing Primary Irritant Substances**
202
- 16 CFR Part 1500.42—2009: Test for Eye Irritants**
202
- 16 CFR Part 1500.44—2009: Method for Testing Extremely Flammable and Flammable Solids**
202
- 16 CFR Part 1507—2002: Fireworks Devices**
202, 5601.1.3
- 16 CFR Part 1630—2007: Standard for the Surface Flammability of Carpets and Rugs**
804.3.3.1, 804.3.3.2

CSA

CSA Group
8501 East Pleasant Valley Road
Cleveland, OH 44131

- ANSI Z21.69/CSA 6.16—2015: Connectors for Movable Gas Appliances**
319.5, 606.4
- ANSI Z83.26/CSA 2.37—2014: Gas-fired Outdoor Infrared Patio Heaters**
605.5.2.2.1
- CSA FC1—2012: Stationary Fuel Cell Power Systems**
1206.3

REFERENCED STANDARDS

CSA—continued

[CSA/ANSI NGV 2—2016: Compressed Natural Gas Vehicle Fuel Containers](#)

319.9.1.3

[CSA/ANSI NGV 5.1—2016: Residential Fueling Appliances](#)

2308.2.3

[CSA/ANSI NGV 5.2—2017: Vehicle Fueling Appliances](#)

2308.2.4

DOC

U.S. Department of Commerce
1401 Constitution Avenue, NW
Washington, DC 20230

16 CFR Part 1632—2015: Standard for the Flammability of Mattress and Mattress Pads (FF 4-72, Amended)

805.1.2.1, 805.2.2.1, 805.3.2.1, 805.4.2.1

DOL

U.S. Department of Labor
c/o Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402-9325

29 CFR Part 1910.1000—2015: Air Contaminants

202, 2104.2.1

29 CFR Part 1910.1200—2015: Hazard Communication

202, 5603.6

DOTn

U.S. Department of Transportation
Office of Hazardous Material Safety
1200 New Jersey Avenue SE
East Building 2nd Floor
Washington, DC 20590

33 CFR Part 154—2015: Facilities Transferring Oil or Hazardous Material in Bulk

5706.8

33 CFR Part 155—2015: Oil or Hazardous Material Pollution Prevention Regulations for Vessels

5706.8

33 CFR Part 156—2015: Oil and Hazardous Material Transfer Operations

5706.8

49 CFR Part 172—2015: Hazardous Materials Tables, Special Provisions, Hazardous Materials Communications, Emergency Response Information and Training Requirements

5604.6.5.2

49 CFR Part 173—2009: Shippers—General Requirements for Shipments and Packagings

5104.1.1, 5104.1.2, 5606.3

49 CFR Part 173.137—2009: Shippers—General Requirements for Shipments and Packagings: Class 8—Assignment of Packing Group

202

49 CFR Part 173.192—2006: Packaging for Certain Toxic Gases in Hazard Zone A

Table 5003.8.2

49 CFR Part 178—2015: Specifications for Packagings

3505.4

49 CFR Parts 100–185—2015: Hazardous Materials Regulations

202, 3505.4, 5303.2, 5503.4.3, 5503.7, 5601.1, 5601.1.3, 5601.3, 5706.5.1.15

DOTy

U.S. Department of Treasury
c/o Superintendent of Documents
Washington, DC 20402-9325

27 CFR Part 555—2015: Commerce in Explosives, as amended through April 1, 1998

202, 5604.6.5.2

EN

European Committee for Standardization (EN)
 Central Secretariat
 Rue de Stassart 36
 B-1050 Brussels

European Standard EN 1081—1998: Resilient Floor Coverings—Determination of the Electrical Resistance
 2309.5.1.1

FCC

Federal Communications Commission
 Wireless Telecommunications Bureau (WTB)
 445 12th Street SW
 Washington, DC 20554

47 CFR Part 90.219—2014: Private Land Mobile Radio Services—Use of Signal Boosters
 510.5.5

FM

FM Approvals
 Headquarters Office
 1151 Boston-Providence Turnpike
 P.O. Box 9102
 Norwood, MA 02062

4430—2012: Approval Standard for Heat and Smoke Vents
 910.3.1

ANSI/FM 4996—2019: Approval Standard for Classification of Pallets and Other Material Handling Products as Equivalent to Wood Pallets
 315.7.5, 3206.4.1.1

IBC—21: International Building Code®

201.3, 202, 304.1.3, 306.1, 311.1.1, 311.3, 313.1, 317.1, 403.7.3.4, 403.10.4, 404.2.1, 504.1, 508.1, 508.1.2, 510.5.1, 603.1, 604.1, 604.4, 604.5, 604.5.1, 604.5.2, 604.5.3, 604.5.4, 605.2.1.1, 605.3, 605.4.2.6, 605.6.2, 605.8, 701.1, 701.6, 801.1, 803.1, Table 803.3, 803.11.1, 803.11.2, 803.15, 807.2, 807.5.1.2, 808.1, 808.2, 808.5, 901.4, 901.4.1, 901.4.2, 901.4.3, 901.4.4, 903.2, 903.2.5.2, 903.2.9.1, 903.2.10, 903.3.1.1.1, 903.3.1.2, 903.3.1.2.1, 903.3.1.2.3, 903.3.2, 904.14, 907.1.1, 907.2.1, 907.2.6.2, 907.2.6.3.3, 907.2.7, 907.2.13, 907.2.18, 907.2.21, 907.5.2.1, 907.6.6, 909.1, 909.2, 909.3, 909.4.3, 909.5, 909.5.3, 909.5.3.1, 909.5.3.2, 909.6.3, 909.10.5, 909.11.1, 909.18.8, 909.20.2, 909.20.2.1, 909.20.3.1, 909.20.3.2, 909.20.6.1, 909.21.1, 910.4.5, Table 911.1, 911.2, 913.2.1, 914.1, 914.2.1, 914.3.1, 914.3.2, 914.4.1, 914.5.3, Table 914.8.3, 914.8.3.2, 914.10, 915.1.6, 1003.2, 1003.5, Table 1004.5, 1004.6, 1005.7.2, 1006.2.1, Table 1006.2.1, 1008.3.4, 1009.2, 1009.4.1, 1009.4.2, 1009.5, 1009.6.4, 1009.7.2, 1010.1.4, 1010.1.6, 1010.2.2, 1010.2.7, 1010.3.1, 1010.3.3, 1011.7, 1011.10, 1011.11, 1011.12.2, 1012.6.3, 1012.6.4, 1014.1, 1015.2, 1015.2.1, 1016.2, Table 1017.2, 1018.3, 1018.5, 1019.3, 1019.4, 1020.2, Table 1020.2, 1020.2.1, 1021.4, 1023.2, 1023.3.1, 1023.4, 1023.5, 1023.6, 1023.7, 1023.12, 1023.12.1, 1023.12.2, 1024.3, 1024.5, 1024.6, 1024.7, 1024.8, 1026.2, 1026.3, 1026.4.1, 1027.5, 1028.2, 1030.1.1.1, 1030.14.1, 1030.16.4, 1031.5.3, 1101.2, 1101.3, 1103.3.2, 1103.4.1, 1103.4.8, 1103.4.9.1, 1103.4.9.2.1, 1103.4.9.2.2, 1103.4.9.4, 1103.4.9.5, 1103.4.10, 1103.5.4, 1104.5, 1104.17, 1104.17.1, 1104.18, Table 1104.18, 1105.4.1, 1105.4.3.1, 1105.4.3.2, 1105.5.7, 1105.7.2, 1105.7.3, 1105.7.4, 1105.7.5, 1105.7.6, 1105.8, 1203.1, 1203.1.3, 1203.1.8, 1203.2.1, 1203.2.8, 1203.2.9, 1203.2.11, 1203.2.16, 1203.2.19, 1205.1, 1206.6.2, 1207.4.4, 1207.7.4, 1207.9.2, 1207.11.3, 2004.6, 2006.17, 2007.1, 2007.4, 2103.3, 2107.1, 2301.1, 2301.4, 2303.1, 2307.4, 2308.3, 2308.3.1, 2309.3.1.5.1, 2309.3.2, 2310.1, 2311.1, 2311.3.1, 2311.4.1, 2311.8.3, 2404.2, 2404.3.1, 2404.3.3.6, 2404.3.4, 2405.2, 2701.1, 2701.4, 2703.2.2, 2703.3.1, 2703.3.2, 2703.3.4, 2703.3.8, 2703.14, 2703.14.1, 2703.14.2, 2703.15.1, 2704.3.1, 2705.2.3.2, 2705.3.1, 2705.3.2.1, 2705.3.3, 2803.1, 2905.1, 2909.2, 2909.4, 2909.6, 3101.1, 3103.1, 3103.3.1, 3103.8.2, 3103.8.4, 3103.9.1, 3103.9.2, 3103.9.3, 3104.1, 3105.5, 3201.3, 3206.3.2, 3206.9, 3207.2, 3208.1.1, 3208.2, 3315.1, 3403.1, 3704.3, 3704.4, 3704.5, 3801.1, 3801.2, 3804.1, 3804.1.1.1, Table 3805.4, Table 3806.2.1, 3901.1, 3903.1, 3904.1, 5003.2.2.2, 5003.2.8, 5003.8.1, Table 5003.8.2, 5003.8.3, 5003.8.3.1, 5003.8.4.1, 5003.9.9, 5004.13, 5005.2, 5005.3.9, 5101.1, 5303.16.1, 5303.16.2, 5306.1, 5306.2, 5306.2.1, 5306.2.2, 5307.4.6, 5503.1.2, 5503.5.2, 5504.2.1.2, 5504.2.2.2, 5505.4.1, 5604.2, Table 5604.5.2(3), 5605.5, 5701.3, 5704.2.7.7, 5704.2.8.1, 5704.2.8.2, 5704.2.9.3, 5704.2.9.4, 5704.3.3.5, 5704.3.7.1, 5704.3.8, 5705.3.4, 5705.3.5.3, 5705.3.7.1, 5705.3.7.2, 5705.3.7.3, 5705.3.7.4, 5705.3.7.5.1, 5706.2.3, 5706.4.1, 5803.1.1, 5806.4.3, 5808.1, 5808.3, 5808.3.2, 5906.2.2, 5906.2.3, 5906.4.2, 6003.1.4.2, 6005.3.1, 6109.11.2, 6204.1.2, 6306.4, 6404.1.4, 6604.1

ICC 300—17: Standard on Bleachers, Folding and Telescopic Seating and Grandstands

1030.1.1, 1030.17

ICC 500—20: ICC/NSSA Standard on the Design and Construction of Storm Shelters

1031.2

ICC A117.1—17: Accessible and Usable Buildings and Facilities

907.5.2.3.3, 1009.8.2, 1009.9, 1009.11, 1010.2.13.1, 1012.1, 1012.6.5, 1012.10, 1013.4, 1023.11

IEBC—21: International Existing Building Code®

102.3, 1011.5.2, 1103.1, 1104.18, 1105.5.2

IFGC—21: International Fuel Gas Code®

201.3, 605.1, 605.2.1.3, 605.3, 605.6.2, 605.8, 610.1.1, 1206.9, 2301.1, 2301.6, 2308.1, 2309.3.1.2, 2309.3.1.5, 2504.5, 3001.1, 3003.1, 3004.1, 3004.2, 3107.12.1, 3107.12.2, 3107.13.1, 3304.3, 3307.2.1, Table 5003.1.1(1), 5301.1, 5801.1, 5803.1.4, 6103.1, 6103.2.1.7, 6103.3

ICC—continued

[W] IMC—21: International Mechanical Code®

201.3, 308.3, 605.1, 605.2.1.1, 605.2.1.2, 605.2.1.3, 605.2.1.4, 605.2.1.5, 605.3, 605.4, 605.4.2.3, 605.4.2.5, 605.6.2, 605.8, 606.1, 606.2, 608.1, 608.3, 608.4, 608.5, 608.8, 608.9.1, 608.10, 608.17, 610.1.1, 903.2.11.4, 904.13, 907.3.1, 909.1, 909.10.2, 909.13.1, 910.4.7, 915.6.1, 1006.2.2.3, 1011.16, 1020.6.1, 1207.4.7, 1207.6.1, 1207.6.1.2.2, 1207.11.7, 2104.2.1, 2105.3, 2301.1, 2301.6, 2309.3.1.2, 2311.3.1, 2311.4.3, 2311.8.2, 2311.8.8, 2311.8.10, 2404.7, 2404.7.2, 2504.5, 2703.2.2, 2703.10.4, 2703.14, 2803.2, 2803.3, 3001.1, 3003.1, 3004.2, 3107.12.1, 3107.12.2, 3703.5, 3804.1.1.7, [3903.2.2](#), [3903.3.3](#), 3904.1, Table 5003.1.1(1), 5003.8.4.2, 5003.8.5.2, 5003.8.6.2, 5004.3.1, 5303.7.6, 5303.16.9, 5305.5, 5306.2.2, 5306.2.3, 5307.4.4, 5504.2.1.3, 5504.2.2.3, 5505.4.1.1, 5701.3, 5703.6.1, 5704.2.8.9, 5705.3.7.5.1, 5706.2, 5706.4.4, 6003.1.3, 6003.2.3.2, 6004.2.2.7, 6005.3.1, 6005.3.2, 6103.2.1.7

IPC—21: International Plumbing Code®

201.3, 903.3.5, 904.11.1.3, 912.6, 2311.2.3, 5004.2.2.6

IPMC—21: International Property Maintenance Code®

311.1.1

IRC—21: International Residential Code®

102.5, 202, 913.1, 1001.1, 1205.1, 1205.2.1

IWUIC—21: International Wildland-Urban Interface Code®

304.1.2

IIAR

International Institute of Ammonia Refrigeration
1001 N. Fairfax Street, Suite 503
Alexandria, VA 22314

ANSI/IIAR 2—2014, including Addendum A: Safe Design of Closed-circuit Ammonia Refrigeration Systems

608.1.2, 608.9

ANSI/IIAR 6—2019: Standard for Inspection, Testing, and Maintenance of Closed-circuit Ammonia Refrigeration Systems

608.1.2

ANSI/IIAR 7—2019: Developing Operating Procedures for Closed-circuit Ammonia Refrigeration Systems

608.1.2

ANSI/IIAR 8—2020: Decommissioning of Closed-circuit Ammonia Refrigeration Systems

608.1.2

ANSI/IIAR 9—2020: Standard for Minimum System Safety Requirements for Existing Closed-circuit Ammonia Refrigeration Systems

608.1.2

IKECA

International Kitchen Exhaust Cleaning Association
100 North 20th Street, Suite 400
Philadelphia, PA 19103

ANSI/IKECA C10—2016: Standard for the Methodology for Cleaning Commercial Kitchen Exhaust Systems

606.3.3.2

ISO

International Organization for Standardization (ISO)
ISO Central Secretariat 1 ch, de la Voie-Creuse, Case postale 56
CH-1211 Geneva 20, Switzerland

ISO 8115—86: Cotton Bales—Dimensions and Density

Table 2704.2.2.1, Table 5003.1.1(1)

NEMA

National Electrical Manufacturer’s Association
1300 North 17th Street Suite 900
Arlington, VA 22209

250—2018: Enclosures for Electrical Equipment (1,000 Volt Maximum)

6005.2

02—20: Hydrogen Technologies Code

1206.3, 1206.4, 2309.1, 2309.3.1.1, 2309.3.1.2, 2309.4, 2309.6, 2311.8, 2311.8.2, 2311.8.10, 2311.8.11, 5301.1, 5801.1

04—21: Standard for Integrated Fire Protection and Life Safety System Testing

901.6.2.1, 901.6.2.2

10—18: Standard for Portable Fire Extinguishers

Table 901.6.1, 906.2, Table 906.3(1), Table 906.3(2), 906.3.2, 906.3.4, 3006.3

11—16: Standard for Low-, Medium-, and High-expansion Foam

904.7, 5704.2.9.2.2

12—18: Standard on Carbon Dioxide Extinguishing Systems

Table 901.6.1, 904.8, 904.13, 1207.5.5

12A—18: Standard on Halon 1301 Fire Extinguishing Systems

Table 901.6.1, 904.9

[W] 13—19: Standard for the Installation of Sprinkler Systems (except 9.3.6.3(5))

903.3.1.1, 903.3.2, 903.3.8.2, 903.3.8.5, 904.13, 905.3.4, 907.6.4, 914.3.2, 1019.3, 1019.3, 1103.4.8, 3201.1, 3204.2, 3205.5, Table 3206.2, 3206.4.1, 3206.10, 3207.2, 3207.2.1, 3208.2.2, 3208.2.2.1, 3208.4, 3210.1, 3401.1, 5104.1, 5104.1.1, 5106.5.7, 5704.3.3.9, Table 5704.3.6.3(7), 5704.3.7.5.1, 5704.3.8.4

13D—19: Standard for the Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes

903.3.1.3

13R—19: Standard for the Installation of Sprinkler Systems in Low-rise Residential Occupancies

903.3.1.2, 903.3.5.2, 903.4

14—19: Standard for the Installation of Standpipe and Hose Systems

905.2, 905.3.4, 905.4.2, 905.6.2, 905.8

15—17: Standard for Water Spray Fixed Systems for Fire Protection

1207.5.5, 5704.2.9.2.3

16—19: Standard for the Installation of Foam-water Sprinkler and Foam-water Spray Systems

904.7, 904.13

17—21: Standard for Dry Chemical Extinguishing Systems

Table 901.6.1, 904.6, 904.13

17A—21: Standard for Wet Chemical Extinguishing Systems

Table 901.6.1, 904.5, 904.13

20—19: Standard for the Installation of Stationary Pumps for Fire Protection

913.1, 913.2, 913.5.1

22—18: Standard for Water Tanks for Private Fire Protection

507.2.2

24—19: Standard for Installation of Private Fire Service Mains and Their Appurtenances

507.2.1, 2809.5

25—20: Standard for the Inspection, Testing and Maintenance of Water-based Fire Protection Systems

507.5.3, Table 901.6.1, 901.7, 904.7.1, 912.7, 913.5

30—21: Flammable and Combustible Liquids Code

607.1, 5001.1, 5701.2, 5703.6.2, 5703.6.2.1, 5704.2.7, 5704.2.7.1, 5704.2.7.2, 5704.2.7.3.2, 5704.2.7.4, 5704.2.7.6, 5704.2.7.7, 5704.2.7.8, 5704.2.7.9, 5704.2.9.3, 5704.2.9.4, 5704.2.9.6.1.1, 5704.2.9.6.1.2, 5704.2.9.6.1.3, 5704.2.9.6.1.4, 5704.2.9.6.1.5, 5704.2.9.6.2, 5704.2.9.7.3, 5704.2.10.2, 5704.2.11.3, 5704.2.11.4.2, 5704.2.12.1, 5704.3.1, 5704.3.6, Table 5704.3.6.3(1), Table 5704.3.6.3(2), Table 5704.3.6.3(3), 5704.3.7.2.3, 5704.3.8.4, 5706.8.3

30A—21: Code for Motor Fuel-dispensing Facilities and Repair Garages

2301.4, 2301.5, 2301.6, 2306.6.3, 2310.1

30B—19: Code for the Manufacture and Storage of Aerosol Products

5101.1, 5103.1, 5104.1, Table 5104.3.1, Table 5104.3.2, Table 5104.3.2.2, 5104.3.3, 5104.4.1, 5104.5.2, 5104.6, 5104.8.2, 5106.2.2, 5106.2.4, 5106.3.2, Table 5106.4, 5106.5.1, 5106.5.6, 5107.1

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- 31—20: Standard for the Installation of Oil-burning Equipment
605.1.6, 605.4.1, 605.4.3
- 32—16: Standard for Dry Cleaning Facilities
2107.1, 2107.3
- [W] 33—18: Standard for Spray Application Using Flammable or Combustible Materials
2403.3.3, [2404.3.5](#)
- 34—18: Standard for Dipping, Coating and Printing Processes Using Flammable or Combustible Liquids
2405.3, 2405.4.1.1
- 35—16: Standard for the Manufacture of Organic Coatings
2901.3, 2905.4
- 40—19: Standard for the Storage and Handling of Cellulose Nitrate Film
306.2
- 45—19: Standard on Fire Protection for Laboratories Using Chemicals (2015 Edition)
3803.1.5, 3804.1.1.7, 3805.2.1, 3805.2.2
- 51—18: Design and Installation of Oxygen-fuel Gas Systems for Welding, Cutting and Allied Processes
3501.5, 3507.1, 3509.1
- 52—19: Vehicular Gaseous Fuel System Code
319.9.2, 5301.1
- [S] [54-21: National Fuel Gas Code](#)
[6101.1](#), [6103.1](#), [6103.2.1.7](#), [6103.3](#)
- 55—20: Compressed Gases and Cryogenic Fluids Code
3508.1, 5301.1, 5307.4.2, 5501.1, 5801.1, 6301.1
- 56—20: Standard for Fire and Explosion Prevention during Cleaning and Purging of Flammable Gas Piping Systems
3307.2.1
- 58—20: Liquefied Petroleum Gas Code
319.8.3, 2311.5, 3903.6, 6101.1, 6103.1, 6103.2.1, 6103.2.1.2, 6103.2.1.7, 6103.2.2, 6104.1, 6104.3.2, 6104.4, 6105.2, 6106.2, 6106.3, 6107.2, 6107.4, 6108.1, 6108.2, 6109.11.2, 6111.3
- 59A—19: Standard for the Production, Storage and Handling of Liquefied Natural Gas (LNG)
5301.1, 5501.1
- 61—20: Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities
Table 2205.1
- [68—13: Standard on Explosion Protection by Deflagration Venting](#)
[911.1](#), [911.4](#), Table 2205.1
- 69—19: Standard on Explosion Prevention Systems
911.1, 911.3, Table 2205.1
- 70—20: National Electrical Code
309.2, 603.1, 603.1.1, 603.2.1, 603.4, 603.4.1, 603.5, 603.8, 605.1.2, 605.1.6, 605.6.2, 607.6, 607.7, 608.17, 608.18, 904.3.1, 907.6.1, 909.12.2, 909.16.3, 910.4.6, 1006.2.2.4, 1010.2.9.2, 1201.2, 1203.1.3, 1205.1, 1206.4, 1206.14, 1207.4.1, 1207.4.2, 1207.4.8, 1207.5.3, 1207.10.6, 1207.10.7.4, 1207.11.5, 1207.11.10, 2006.3.4, 2104.2.3, 2108.2, 2203.4.1, 2203.5, Table 2205.1, 2301.5, 2305.4, 2308.8.1.2.4, 2309.2.3, 2311.3.1, 2311.8.10, 2403.2.1, 2403.2.1.1, 2403.2.1.4, 2403.2.5, 2404.6.1.2.2, 2404.9.4, 2504.5, 2603.2.1, 2703.7.1, 2703.7.2, 2703.7.3, 2803.4, 2904.1, 3103.12.6.1, 3106.6, 3107.12.7, 3305.7, 3506.4, 4003.3.3, 4003.4, 5003.8.7.1, 5003.9.4, 5303.7.6, 5303.8, 5303.16.11, 5303.16.14, 5503.6, 5503.6.2, 5703.1, Table 5703.1.1, 5703.1.3, 5704.2.8.12, 5704.2.8.17, 5706.2.8, 5803.1.5, 5803.1.5.1, 5807.1.10, 5906.5.5, 5906.5.6, 6109.15.1
- 72—19: National Fire Alarm and Signaling Code
508.1.6, Table 901.6.1, 903.4.1, 904.3.5, 907.1.2, 907.2, 907.2.6, 907.2.9.3, 907.2.11, 907.2.13.2, 907.3, 907.3.3, 907.3.4, 907.5.2.1.2, 907.5.2.1.3, 907.5.2.1.3.2, 907.5.2.2, 907.5.2.2.5, 907.6, 907.6.1, 907.6.2, 907.6.6, 907.7, 907.7.1, 907.7.2, 907.8, 907.8.2, 907.8.4, 917.1, 1103.3.2, 1203.2.4, 1207.5.4, 1207.6.1.2.3, 1207.6.1.2.4, Table 1207.7, 2810.11
- [76—16: Standard for the Fire Protection of Telecommunications Facilities](#)
[1207.1.2.1](#), [1207.2.1](#), [1207.3.1](#), [1207.3.7.1](#), [1207.4.1](#), [1207.5.1](#), [1207.5.2](#), [1207.5.3](#), [1207.5.5](#), Table [1207.6](#), [1207.6.2.3](#), Table [1207.7](#)

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77—14: Recommended Practice on Static Electricity

Table 2205.1

80—19: Standard for Fire Doors and Other Opening Protectives

705.2, 706.1, 1010.3.3, 1032.2.2

85—19: Boiler and Combustion System Hazards Code

Table 2205.1

86—19: Standard for Ovens and Furnaces

3001.1

92—18: Standard for Smoke Control Systems

909.7, 909.8, 909.22, 909.22.2

[W] 96—21: Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations

606.2, 606.3, 904.13

99—21: Health Care Facilities Code

603.1.2, 603.5.1.1, 609.1, 1105.11.1, 1105.11.2, 1203.4.1, 1203.5.1, 5003.7.4, 5306.4, 5306.5

101—21: Life Safety Code

1030.6.2

105—19: Standard for Smoke Door Assemblies and Other Opening Protectives

705.2, 706.1, 909.20.4.1

110—19: Standard for Emergency and Standby Power Systems

913.5.2, 913.5.3, 1203.1.3, 1203.4, 1203.5

111—19: Standard on Stored Electrical Energy Emergency and Standby Power Systems

1203.1.3, 1203.4, 1203.5

120—20: Standard for Fire Prevention and Control in Coal Mines

Table 2205.1

[W] 130-20 as amended: Standard for Fixed Guideway Transit and Passenger Rail Systems

4901.1

160—21: Standard for the Use of Flame Effects Before an Audience

308.3.2

170—18: Standard for Fire Safety and Emergency Symbols

1025.2.6.1

204—18: Standard for Smoke and Heat Venting

Table 901.6.1, 910.5.1, 910.5.2

232—17: Standard for the Protection of Records

3210.1.1

241—19: Standard for Safeguarding Construction, Alteration and Demolition Operations

3301.1, 3303.2

253—19: Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source

804.3.1, 804.3.2, 804.4

260—19: Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture

805.1.1.1, 805.2.1.1, 805.3.1.1, 805.4.1.1

261—18: Standard Method of Test for Determining Resistance of Mock-up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes

805.1.1.1, 805.2.1.1, 805.3.1.1, 805.4.1.1

265—19: Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Wall Coverings in Full Height Panels and Walls

803.5.1, 803.5.1.1

286—19: Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth

803.1, 803.1.1, 803.1.1.1, 803.3, 803.12, 803.13, 804.1.1, 804.2.4

289—19: Standard Method of Fire Test for Individual Fuel Packages

807.3, 807.4.1, 807.5.1.1, 808.3

303—21: Fire Protection Standard for Marinas and Boatyards

3603.5, 3603.6, 3604.2

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- 318—18: Standard for the Protection of Semiconductor Fabrication Facilities**
2703.16
- 326—20: Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning or Repair**
3510.1
- 385—17: Standard for Tank Vehicles for Flammable and Combustible Liquids**
5706.5.4.5, 5706.6, 5706.6.1, 5707.2
- 400—19: Hazardous Materials Code**
5601.1.5, Table 6303.1.4, 6304.1.2, Table 6304.1.5(1), Table 6304.1.5(2)
- 407—17: Standard for Aircraft Fuel Servicing**
2006.2, 2006.3
- 409—16: Standard for Aircraft Hangars**
914.8.3, Table 914.8.3, 914.8.3.1, 914.8.6
- 410—20: Standard on Aircraft Maintenance**
2004.7
- 484—19: Standard for Combustible Metals**
320.3.4, 320.3.6, Table 2205.1
- 495—18: Explosive Materials Code**
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- 498—18: Standard for Safe Havens and Interchange Lots for Vehicles Transporting Explosives**
5601.1.2
- [SI] 502-20 as amended: Standard for Road Tunnels, Bridges, and Other Limited Access Highways**
4801
- 505—18: Fire Safety Standard for Powered Industrial Trucks, Including Type Designations, Areas of Use, Maintenance and Operation**
309.2, 4003.3.3
- 652—19: The Fundamentals of Combustible Dust**
320.3.5, 2203.4.8, 2203.5, 2204.1, 2204.2, 2205.1.1
- 654—20: Standard for Prevention of Fire and Dust Explosions from the Manufacturing, Processing and Handling of Combustible Particulate Solids**
320.3.5, 2203.1, 2203.5, Table 2205.1
- 655—17: Standard for the Prevention of Sulfur Fires and Explosions**
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- 664—20: Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking Facilities**
2203.1, 2203.5, Table 2205.1, 2805.3
- 701—19: Standard Methods of Fire Tests for Flame-propagation of Textiles and Films**
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- 703—21: Standard for Fire Retardant-treated Wood and Fire-retardant Coatings for Building Materials**
803.4
- 704—17: Standard System for Identification of the Hazards of Materials for Emergency Response**
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- [W] 720—15: Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment**
915.5.1, 915.5.2, 915.6, 1103.9
- 750—19: Standard on Water Mist Fire Protection Systems**
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- 780—17: Standard for the Installation of Lightning Protection Systems**
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- 853—20: Installation of Stationary Fuel Cell Power Systems**
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1103.1.1

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5601.1.4
- 1123—18: Code for Fireworks Display
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- 1124—06: Code for the Manufacture, Transportation, Storage and Retail Sales of Fireworks and Pyrotechnic Articles
5601.1.3
- 1124—17: Code for the Manufacture, Transportation, and Storage of Fireworks and Pyrotechnic Articles
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5601.1.4
- 1126—21: Standard for the Use of Pyrotechnics Before a Proximate Audience
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- 1127—18: Code for High-power Rocketry
5601.1.4
- 1142—17: Standard on Water Supplies for Suburban and Rural Fire Fighting
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510.4.2, 510.5))~~
- [S] 1225-22: Standard Emergency Services Communications
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- 2001—18: Standard on Clean Agent Fire Extinguishing Systems
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UL

Underwriters Laboratories LLC
333 Pfingsten Road
Northbrook, IL 60062

- 10C—2016: Positive Pressure Fire Tests of Door Assemblies
1010.2.9.3
- 30—1995: Metal Safety Cans—with revisions through June 2014
5003.9.10, 5005.1.10, 5705.2.4, 5707.2
- 58—2018: Steel Underground Tanks for Flammable and Combustible Liquids
5704.2.13.1.5
- 80—2007: Steel Tanks for Oil-burner Fuels and Other Combustible Liquids—with revisions through January 2014
319.7.1, 605.4.2.1, 605.4.2.2, 607.2
- 87A—2015: Power-operated Dispensing Devices for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent—with revisions through June 2017
2306.8.1
- 142—2006: Steel Aboveground Tanks for Flammable and Combustible Liquids—with revisions through August 2014
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- 199E—2004: Outline of Investigation for Fire Testing of Sprinklers and Water Spray Nozzles for Protection of Deep Fat Fryers
904.13.4.1
- 217—2015: Single and Multiple Station Smoke Alarms—with revisions through November 2016
907.2.11, 915.4.4
- 268—2016: Smoke Detectors for Fire Alarm Systems—with revisions through July 2016
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- 294—2018: Access Control System Units—with revisions through October 2018
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- 300—2005: Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment—with revisions through December 2014
904.13
- 300A—2006: Outline of Investigation for Extinguishing System Units for Residential Range Top Cooking Surfaces
904.14.1.1
- 305—2012: Panic Hardware—with revisions through March 2017
1010.2.9.3
- 325—2017: Standard for Door, Drapery, Gate, Louver and Window Operators and Systems
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- 498A—2008: Current Taps and Adaptors—with revisions through June 2016
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- 499—2014: Standard for Electrical Heating Appliances—with revisions through February 2017
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- 647—1993: Standard for Unvented Kerosene-fired Room Heaters and Portable Heaters—with revisions through April 2010
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- 710—2012: Exhaust Hoods for Commercial Cooking Equipment—with revisions through June 2018
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- 723—2018: Standard for Test for Surface Burning Characteristics of Building Materials
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- 790—2004: Standard Test Methods for Fire Tests of Roof Coverings—with revisions through October 2018
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- 791—2006: Standard for Residential Incinerators—with revisions through November 2014
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- 793—2008: Automatically Operated Roof Vents for Smoke and Heat—with revisions through March 2017
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- 817—2015: Standard for Cord Sets and Power-supply Cords—with revisions through August 2018
603.6
- 864—2014: Control Units and Accessories for Fire Alarm Systems—with revisions through March 2018
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- 900—2015: Air Filter Units
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- 924—2016: Standard for Safety Emergency Lighting and Power Equipment—with revisions through May 2018
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