

# Part VI—Referenced Standards

## CHAPTER 80 REFERENCED STANDARDS

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**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.

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### 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

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### 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

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### 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

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### 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

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## 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

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## 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

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## 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

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## 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

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## 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

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## 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

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## 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

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## 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

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## 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

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## 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

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## 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

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## 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

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## 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

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**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

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**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

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**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

**NFPA—continued**

- 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

**NFPA—continued**

- 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**  
202, 911.1, 911.5, 5601.1.1, 5601.1.5, 5604.2, 5604.6.2, 5604.6.3, 5604.7.1, 5605.1, 5605.2.3, 5606.1, 5606.5.2.1, 5607.1, 5607.9, 5607.11, 5607.15
- 498—18: Standard for Safe Havens and Interchange Lots for Vehicles Transporting Explosives**  
5601.1.2
- [S] 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**  
Table 2205.1
- 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**  
807.3, 807.4.1, 807.5.1.2, 2603.5, 3104.2
- 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**  
202, 608.8, 5003.2.2.2, 5003.5, 5003.10.2, 5005.1.10, 5005.1.12, 5005.2.1.1, 5005.4.4, 5503.4.1, 5704.2.3.2
- [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**  
202, Table 901.6.1, 904.11.1.1, 904.13, 1207.5.5
- 780—17: Standard for the Installation of Lightning Protection Systems**  
4003.4
- 853—20: Installation of Stationary Fuel Cell Power Systems**  
1206.3, 1206.4, 1206.6.2, 1206.11, 1206.12
- [S] 855-23: Standard for the Installation of Stationary Energy Storage Systems**  
1201.1
- 914—19: Code for Fire Protection of Historic Structures**  
1103.1.1

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- 1122—18: Code for Model Rocketry  
5601.1.4
- 1123—18: Code for Fireworks Display  
202, 5604.2, 5608.1, 5608.2.2, 5608.5, 5608.6
- 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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- 1125—17: Code for the Manufacture of Model Rocket and High-power Rocket Motors  
5601.1.4
- 1126—21: Standard for the Use of Pyrotechnics Before a Proximate Audience  
5604.2, 5605.1, 5608.1, 5608.2.2, 5608.4, 5608.5
- 1127—18: Code for High-power Rocketry  
5601.1.4
- 1142—17: Standard on Water Supplies for Suburban and Rural Fire Fighting  
B103.3
- ~~((1221—19: Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems  
510.4.2, 510.5))~~
- [S] 1225-22: Standard Emergency Services Communications  
510.1, 510.4.2, 510.5
- 2001—18: Standard on Clean Agent Fire Extinguishing Systems  
Table 901.6.1, 904.10, 1207.5.5
- 2010—20: Standard for Fixed Aerosol Fire-extinguishing Systems  
Table 901.6.1, 904.12, 1207.5.5

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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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605.4
- 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  
907.2.6.2, 907.2.11.7, 915.5.3
- 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**  
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- 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**  
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- 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**  
603.5.1
- 499—2014: Standard for Electrical Heating Appliances—with revisions through February 2017**  
607.6
- 647—1993: Standard for Unvented Kerosene-fired Room Heaters and Portable Heaters—with revisions through April 2010**  
605.5
- 710—2012: Exhaust Hoods for Commercial Cooking Equipment—with revisions through June 2018**  
606.2
- 710B—2011: Recirculating Systems—with revisions through August 2014**  
606.2, 904.13
- 723—2018: Standard for Test 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
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