



1604.3.5, 2002.1

ASM 35—00

Aluminum Sheet Metal Work in Building  
Construction (Fourth Edition)

2002.1

AAMA

American Architectural Manufacturers Associatio  
1827 Waldon Office Square, Suite 550  
Schaumburg, IL 60173

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Voluntary Specification for Self Adhering  
Flashing Used for Installation of Exterior Wall  
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Voluntary Specification for Liquid Applied  
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AAMA/WDMA/CSA 101/I.S.2/A440—17

North American Fenestration  
Standard/Specifications for Windows, Doors  
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*Recommended Static Test Method for  
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*Recommended Dynamic Test Method for  
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*1617A.1.19*

*355.4—11*

*Qualification of Post-Installed Adhesive  
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*440.2R-08*

*Guide for the Design and Construction of  
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*503.7—07*

*Specification for Crack Repair by Epoxy  
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*1911.2*, *1911A.2*

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*Guide to Shotcrete*

*1908.1*, *1908A.1*, *1908.3*, *1908A.3*, *1908.12*,  
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*[DSA-SS, DSA-SS/CC] Guide to Shotcrete*

*1908A.1*, *1908A.9*

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**AISI**

AISI  
S100  
—16

North

American Specification for the Design of  
Cold-formed Steel Structural Members, 2016

1604.3.3, 1905.1.8, 2202.1, 2203.1, 2210.1,  
2210.2, *2211A.2*

American Iron and Steel Institute  
25 Massachusetts Avenue, NW Suite 80  
Washington, DC 20001

AISI S202—15

Code of Standard Practice for Cold-formed  
Steel Framing, 2015

2211.1.3.1

AISI S220—15

North American Standard for Cold-formed  
Steel Framing—Nonstructural Members,  
2015

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AISI S230—15

Standard for Cold-formed Steel Framing—  
Prescriptive Method for One- and Two-family  
Dwellings, 2015

1609.1.1, 1609.1.1.1, 2211.1.2

AISI S240—15

North American Standard for Cold-Formed  
Steel Structuring Framing, 2015

1705.2.2.2, 2202.1, 2203.1, 2211.1, 2211.1.1.1,  
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AISI S400—15/S1—16

North American Standard for Seismic Design  
of Cold-formed Steel Structural Systems,  
2015, with Supplement 1, dated 2016.

2210.2, 2211.1.1.1.1, 2211.1.1.1.2

ALI	ALI	Automotive Lift Institute, Inc. P.O. Box 85 Cortland, NY 13045
	ALCTV—	
	2016	
	Standard for Automotive Lifts—Safety Requirements for Construction, Testing and Validation (ANSI)	
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AMCA	Air Movement and Control Association International 30 West University Drive Arlington Heights, IL 60004
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	Test Method for Louvers Impacted by Wind Borne Debris
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ANSI	American National Standards Institute 25 West 43rd Street, Fourth Floor New York, NY 10036
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A108.6—99
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Installation of Ceramic Tile with Chemical-  
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American National Standard Specifications  
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A118.5—99

American National Standard Specifications  
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A118.6—10

American National Standard Specifications  
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2103.2.3.7

A118.8—99

American National Standard Specifications  
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American National Standard Specifications  
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American National Standard Specifications  
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*American National Standard Specifications  
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APA

ANSI  
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15

Standard

Specification for Structural Glued Laminated  
Timber of Softwood Species

2303.1.3.1, 2306.1

APA - Engineered Wood Associatio  
7011 South 19th Street  
Tacoma, WA 98466

ANSI/APA A190.1—17

Structural Glued Laminated Timber

1705A.5.4, 2303.1.3, 2306.1

ANSI/APA PRP 210—14

Standard for Performance-Rated Engineered  
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Standard for Performance-Rated Engineered  
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APA PDS—12

Panel Design Specification

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APA PDS Supplement 1—12

Design and Fabrication of Plywood Curved  
Panels (revised 2013)

2306.1

APA PDS Supplement 2—12

Design and Fabrication of Plywood-lumber  
Beams (revised 2013)

2306.1

APA PDS Supplement 3—12

Design and Fabrication of Plywood Stressed-  
skin Panels (revised 2013)

2306.1

APA PDS Supplement 4—12

Design and Fabrication of Plywood Sandwich  
Panels (revised 2013)

2306.1

APA PDS Supplement 5—16

Design and Fabrication of All-plywood  
Beams (revised 2013)

2306.1

ANSI/APA PRG 320—17

Standard for Performance-rated Cross-  
laminated Timber

2303.1.4

APA R540—13

Builders Tips: Proper Storage and Handling  
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2306.1

APA S475—16

Glued Laminated Beam Design Tables

2306.1

APA S560—14

Field Notching and Drilling of Glued  
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2306.1

APA T300—16

Glulam Connection Details

2306.1

APA X440—17

Product Guide: Glulam

2306.1

APA X450—01

Glulam in Residential Construction—Western  
Edition



# ASABE

American Society of Agricultural and Biological Engineer  
2950 Niles Road  
St. Joseph, MI 49085

EP 484.3 MON2016

Diaphragm Design of Metal-clad, Wood-frame Rectangular Buildings

2306.1

EP 486.2 OCT 2012ED

Shallow-post and Pier Foundation Design

2306.1

EP 559.2 MON2016

Design Requirements and Bending  
Properties for Mechanically Laminated Wood  
Assemblies

2306.1

# ASCE/SEI

American Society of Civil Engineer  
Structural Engineering Institute  
1801 Alexander Bell Drive  
Reston, VA 20191-4400

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Minimum Design Loads and Associated  
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*[DSA-SS, DSA-SS/CC] Seismic Evaluation and  
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# ASME

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

ASME/A17.1—2016/CSA B44—16

Safety Code for Elevators and Escalators

907.3.3, 911.1.6, 1009.4.1, 11B-407.1, 11B-  
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A17.7—2007/CSA B44—07(R2012)

Performance-based Safety Code for  
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Safety Standard for Platform Lifts and

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Safety Standard for Belt Manlifts

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Cast Copper Alloy Solder Joint Pressure Fittings

909.13.1

B16.22—2013

Wrought Copper and Copper Alloy Solder Joint Pressure Fittings

909.13.1

B20.1—2015

Safety Standard for Conveyors and Related Equipment

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*Bio-processing Equipment Standard*

*B31.3—2014*

*[SLC] Process Piping*

*415.11.6*

B31.3—2016

Process Piping

415.11.6

# ASSE

ANSI/ASSE Z359.1—2016

Requirements for the ANSI/ASSE Z359 Fall Protection Code

1015.6, 1015.7

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

# ASTM

A6/A6M—14

Standard Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes and Sheet Piling

1810.3.2.3, 1810.3.5.3.1, 1810.3.5.3.3

ASTM International  
100 Barr Harbor Drive, P.O. Box C70  
West Conshohocken, PA 19428-2955

A36/A36M—14

Specification for Carbon Structural Steel

1810.3.2.3

A153/A153M—16a

Specification for Zinc Coating (Hot-dip) on  
Iron and Steel Hardware

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A227/A227M—17

*Standard Specification for Steel Wire, Cold-  
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A229/A229M—17

*Standard Specification for Steel Wire,  
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Springs*

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A240/A240M—15a

Standard Specification for Chromium and  
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Specification for Low and Intermediate  
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Specification for Steel Strand, Uncoated  
Seven-wire for Prestressed Concrete

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A463/A463M—15

Standard Specification for Steel Sheet,  
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Specification for High-strength Low-alloy  
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Specification for High-strength Low-alloy  
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Corrosion Resistance

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Specification for Deformed and Plain  
Carbon-steel Bars for Concrete  
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A653/A653M—15

Specification for Steel Sheet, Zinc-coated  
Galvanized or Zinc-iron Alloy-coated  
Galvannealed by the Hot-dip Process

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A706/A706M—15

Specification for Low-alloy Steel Deformed  
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A722/A722M—15

Specification for High-strength Steel Bars for  
Prestressed Concrete

1810.3.10.2, [1811.4](#), [1811A.4](#), [1812.4.2](#), [1812A.4.2](#)

A755/A755M—15

Specification for Steel Sheet, Metallic-coated  
by the Hot-dip Process and Prepainted by  
the Coil-coating Process for Exterior  
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Table 1507.4.3(1), Table 1507.4.3(2)

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Specification for Steel Sheet, 55%  
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A875/A875M—13

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<p>B42—2015A</p> <p>Specification for Seamless Copper Pipe, Standard Sizes</p> <p>909.13.1</p>
<p>B43—15</p> <p>Specification for Seamless Red Brass Pipe, Standard Sizes</p> <p>909.13.1</p>
<p>B68/B68M—11</p> <p>Specification for Seamless Copper Tube, Bright Annealed (Metric)</p> <p>909.13.1</p>
<p>B88—14</p> <p>Specification for Seamless Copper Water Tube</p> <p>909.13.1</p>
<p>B101—12</p> <p>Specification for Lead-coated Copper Sheet and Strip for Building Construction</p> <p>1403.5.3, Table 1507.2.8.2, Table 1507.4.3(1)</p>
<p>B209—14</p> <p>Specification for Aluminum and Aluminum Alloy Steel and Plate</p> <p>Table 1507.4.3(1)</p>
<p>B251—10</p> <p>Specification for General Requirements for Wrought Seamless Copper and Copper-alloy Tube</p> <p>909.13.1</p>
<p>B280—13</p> <p>Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service</p> <p>909.13.1</p>

B370—12

Specification for Copper Sheet and Strip for Building Construction

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Standard Specification for Coatings of Zinc Mechanically Deposited on Iron and Steel Strip for Building Construction

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Specification for Concrete Building Brick

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Specification for Gypsum Casting Plaster and Molding Plaster

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Specification for Gypsum Keene's Cement

Table 2507.2

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Standard Specification for Building Brick  
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C67—14

Test Methods of Sampling and Testing Brick  
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Specification for Portland Cement

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[OSHDP] Specification for Portland Cement

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Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)

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Specification for Mortar for Unit Masonry

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C315—07(2011)

Specification for Clay Flue Liners and Chimney Pots

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C317/C317M—00(2015)

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C331/C331M—14

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C406/C406M—15

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C472—99(2014)

Standard Test Methods for Physical Testing  
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C473—15

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Table 2506.2

C474—15

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Table 2506.2

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C516—08(2014)e1

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Thermal Insulation

722.3.1.4, 722.4.1.1.3

C547—15

Specification for Mineral Fiber Pipe Insulation

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C549—06(2012)

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722.3.1.4, 722.4.1.1.3

C552—15

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C578—15

Standard Specification for Rigid, Cellular  
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C587—04(2014)

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C595/C595M—17

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C618—15

*[OSHPD] Standard Specification for Coal Fly  
Ash and Raw or Calcined Natural Pozzolan  
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1910.2.1, 1910A.1

C618—17

*[DSA-SS, DSA-SS/CC] Standard Specification  
for Coal Fly Ash and Raw or Calcined Natural  
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C631—09(2014)

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C635/C635M—13a

*[OSHPD] Specification for the Manufacture,  
Performance and Testing of Metal  
Suspension Systems for Acoustical Tile and  
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1617A.1.21

C635/C635M—17

*[DSA-SS, DSA-SS/CC] Specification for the  
Manufacture, Performance and Testing of  
Metal Suspension Systems for Acoustical Tile  
and Lay-in Panel Ceilings*

801.1.1.1, 2506.2.1, 1617.10.16, 1617A.1.21

C636/C636M—13

Practice for Installation of Metal Ceiling  
Suspension Systems for Acoustical Tile and  
Lay-in Panels

808.1.1.1, 1617A.1.21

C636/C636M—17

*[DSA-SS, DSA-SS/CC] Practice for Installation  
of Metal Ceiling Suspension Systems for  
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808.1.1.1, 1617.10.16, 1617A.1.21

C652—15

Specification for Hollow Brick (Hollow  
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C726—12

Standard Specification for Mineral Wool Roof  
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Table 1508.2

C728—15

Standard Specification for Perlite Thermal  
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Table 1508.2

C744—14

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C754—15

Specification for Installation of Steel Framing  
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Specification for High-solids Content, Cold  
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1507.15.2

C840—13

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C841—03(2013)

Specification for Installation of Interior  
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C842—05(2015)

Specification for Application of Interior  
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C843—99(2012)

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C897—15

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C932—06(2013)

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C954—15

Specification for Steel Drill Screws for the  
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mm) in Thickness

Table 2506.2, Table 2507.2

C956—04(2015)

Specification for Installation of Cast-in-place  
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C957/C957M—15

Specification for High-solids Content, Cold  
Liquid-applied Elastomeric Waterproofing  
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1507.15.2

*C989—16e1*

*[OSHDP] Standard Specification for Slag  
Cement for Use in Concrete and Mortars*

*1910.2.1, 1910A.1*

*C989—17*

*[DSA-SS, DSA-SS/CC] Standard Specification  
for Slag Cement for Use in Concrete and  
Mortars*

*1909.2.3, 1910A.1*

C1002—14

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Screws for the Application of Gypsum Panel  
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*C1019—16*

*Test Method for Sampling and Testing Grout*

*2115.6.1, 2105A.3, 2105.3*

C1029—15

Specification for Spray-applied Rigid Cellular  
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C1032—14

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C1088—14

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C1157/C1157M—17

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C1177/C1177M—13

Specification for Glass Mat Gypsum  
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C1178/C1178M—13

Specification for Coated Mat Water-resistant  
Gypsum Backing Panel

Table 2506.2, Table 2509.2

C1186—08(2012)

Specification for Flat Fiber Cement Sheets

1403.10, 1404.16.1, 1404.16.2

C1249—06a(2010)

*Standard Guide for Secondary Seal for  
Sealed Insulated Glass Units for Structural  
Sealant Glazing Applications*

2410.1.1

C1261—13

Specification for Firebox Brick for Residential  
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C1278/C1278M—07a(2011)

Specification for Fiber-reinforced Gypsum  
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C1280—13a

Specification for Application of Exterior  
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C1283—11

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C1288—14

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C1289—15

Standard Specification for Faced Rigid  
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C1313/C1313M—13

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C1325—14

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Specification for Plastic (Stucco Cement)

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*Standard Guide for Evaluating Failure of  
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*C1394—03(2012)*

*Standard Guide for In-Situ Structural Silicone  
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*2410.1.3*

C1396/C1396M—14a



Specification for Gypsum Board

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*Standard Guide for Structural Sealant  
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C1492—03(2009)

Standard Specification for Concrete Roof Tile

1507.3.5

C1568—08(2013)

Standard Test Method for Wind Resistance  
of Concrete and Clay Roof Tiles (Mechanical  
Uplift Resistance Method)

1504.2.1.1

*C1586—05(2011)*

*Standard Guide for Quality Assurance of  
Mortars*

*2105.3*

C1600/C1600M—11

Standard Specification for Rapid Hardening  
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Table 2507.2

C1629/C1629M—15

Standard Classification for Abuse-resistant  
Nondecorated Interior Gypsum Panel  
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Panels

403.2.3.1, 403.2.3.2, 403.2.3.4

C1658/C1658M—13

Standard Specification for Glass Mat  
Gypsum Panels

Table 2506.2

C1670—16

Standard Specification for Adhered  
Manufactured Stone Masonry Veneer Units

2103.1

C1766—13

Standard Specification for Factory-laminated  
Gypsum Panel Products

Table 2506.2

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Specification for Round Timber Piles

1810.3.2.4, 2303.1.12

D41/D41M—11

Specification for Asphalt Primer Used in  
Roofing, Dampproofing and Waterproofing

Table 1507.10.2

D43/D43M—00(2012)e1

Specification for Coal Tar Primer Used in  
Roofing, Dampproofing and Waterproofing

Table 1507.10.2

D56—05(2010)

Test Method for Flash Point by Tag Closed  
Cup Tester

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D86—15

Test Method for Distillation of Petroleum  
Products and Liquid Fuels at Atmospheric  
Pressure

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D93—15

Test Methods for Flash Point by Pensky-  
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D226/D226M—09

Specification for Asphalt-saturated Organic  
Felt Used in Roofing and Waterproofing

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D227/D227M—03(2011)e1

Specification for Coal-tar-saturated Organic  
Felt Used in Roofing and Waterproofing

Table 1507.10.2

D312/D312M—15

Specification for Asphalt Used in Roofing

Table 1507.10.2

D422—63(2007)e2

Test Method for Particle-size Analysis of  
Soils

1803.5.3

D448—2012

Standard Classification for Sizes of

Aggregate for Road and Bridge Construction

1507.12.3, 1507.13.3

D450/D450M—07(2013)e1

Specification for Coal-tar Pitch Used in  
Roofing, Dampproofing and Waterproofing

Table 1507.10.2

D635—14

Test Method for Rate of Burning and/or  
Extent and Time of Burning of Plastics in a  
Horizontal Position

2606.4

D1143/D1143M—07(2013)

Test Methods for Deep Foundations Under  
Static Axial Compressive Load

1810.3.3.1.2

D1227—13

Specification for Emulsified Asphalt Used as  
a Protective Coating for Roofing

Table 1507.10.2, 1507.15.2

D1557—12e1

Test Methods for Laboratory Compaction  
Characteristics of Soil Using Modified Effort  
[56,000 ft-lb/ft<sup>3</sup> (2,700 kN m/m<sup>3</sup>)]

1705.6, 1804.6

*D1586—11*

*Standard Test Method for Standard  
Penetration Test (SPT) and Split-Barrel  
Sampling of Soils*

*1813, 1813A.2*

D1863/D1863M—05(2011)e1

Specification for Mineral Aggregate Used on  
Built-up Roofs

Table 1507.10.2

D1929—16

Standard Test Method for Determining  
Ignition Temperature of Plastics

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1406.11.4.2, 1408.11.2.1, 2606.4

D1970/D1970M—15a

Specification for Self-adhering Polymer  
Modified Bituminous Sheet Materials Used as  
Steep Roof Underlayment for Ice Dam  
Protection

1507.1.1, 1502.2.8.2, 1507.3.9, 1507.5.7, 1507.8.8,  
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D2178/D2178M—15

Specification for Asphalt Glass Felt Used in  
Roofing and Waterproofing

Table 1507.10.2

D2487—11

Practice for Classification of Soils for  
Engineering Purposes (Unified Soil  
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D2626/D2626M—04(2012)e1

Specification for Asphalt Saturated and  
Coated Organic Felt Base Sheet Used in  
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D2822/D2822M—05(2011)e1

Specification for Asphalt Roof Cement,  
Asbestos Containing

Table 1507.10.2

D2823/D2823M—05(2011)e1

Specification for Asphalt Roof Coatings,  
Asbestos Containing

Table 1507.10.2

D2824/D2824M—13

Standard Specification for Aluminum-  
pigmented Asphalt Roof Coatings,  
Nonfibered and Fibered without Asbestos

Table 1507.10.2

D2843—16

Standard Test Method for Density of Smoke  
from the Burning or Decomposition of  
Plastics

2606.4

D2859—16

Standard Test Method for Ignition  
Characteristics of Finished Textile Floor  
Covering Materials

804.4.1, 804.4.2

D2898—10

Test Methods for Accelerated Weathering of  
Fire-retardant-treated Wood for Fire Testing

1505.1, 2303.2.4, 2303.2.6

D3019—08

Specification for Lap Cement Used with  
Asphalt Roll Roofing, Nonfibered, Asbestos  
Fibered and Nonasbestos Fibered

Table 1507.10.2

D3161/D3161M—15

Test Method for Wind Resistance of Steep  
Slope Roofing Products (Fan Induced  
Method)

1504.1.1, Table 1504.1.1, 1504.3.3, 1507.17.8

D3200—74(2012)

Standard Specification and Test Method for  
Establishing Recommended Design Stresses  
for Round Timber Construction Poles

2303.1.12

D3201/D3201M—13

Test Method for Hygroscopic Properties of  
Fire-retardant-treated Wood and Wood-  
based Products

2303.2.7

D3278—96(2011)

Test Methods for Flash Point of Liquids by  
Small Scale Closed-cup Apparatus

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D3462/D3462M—10a

Specification for Asphalt Shingles Made from  
Glass Felt and Surfaced with Mineral  
Granules

1507.2.4

D3468/D3468M—99(2013)e1

Specification for Liquid-applied Neoprene  
and Chlorosulfonated Polyethylene Used in  
Roofing and Waterproofing

1507.15.2

D3679—13

Specification for Rigid Poly (Vinyl Chloride)  
(PVC) Siding

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D3689/D3698M—07(2013)e1

Test Methods for Deep Foundations under  
Static Axial Tensile Load

1810.3.3.1.5

D3737—12

Practice for Establishing Allowable Properties  
for Structural Glued Laminated Timber  
(Glulam)

2303.1.3

D3746—85(2008)

Test Method for Impact Resistance of  
Bituminous Roofing Systems

1504.7

D3747—79(2007)

Specification for Emulsified Asphalt  
Adhesive for Adhering Roof Insulation

Table 1507.10.2

D3909/D3909M—14

Specification for Asphalt Roll Roofing (Glass  
Felt) Surfaced with Mineral Granules

1507.2.8.2, 1507.6.5, Table 1507.10.2

D3957—09

Standard Practices for Establishing Stress  
Grades for Structural Members Used in Log  
Buildings

2303.1.11

*D3966—07(2013)*

*Standard Test Method for Deep Foundations  
Under Lateral Loads*

*1810A.3.3.2*

D4022/D4022M—07(2012)e1

Specification for Coal Tar Roof Cement,  
Asbestos Containing

Table 1507.10.2

D4272—15

Test Method for Total Energy Impact of  
Plastic Films by Dart Drop

1504.7

D4318—10e1

Test Methods for Liquid Limit, Plastic Limit  
and Plasticity Index of Soils

1803.5.3

D4434/D4434M—12

Specification for Poly (Vinyl Chloride) Sheet  
Roofing

1507.13.2

D4479/D4479M—07(2012)e1

Specification for Asphalt Roof Coatings—  
Asbestos-free

Table 1507.10.2

D4586/D4586M—07(2012)e1

Specification for Asphalt Roof Cement—  
Asbestos-free

Table 1507.10.2

D4601/D4601M—04(2012)e1

Specification for Asphalt-coated Glass Fiber  
Base Sheet Used in Roofing

Table 1507.10.2, 1507.11.2.1

D4637/D4637M—14e1

Specification for EPDM Sheet Used in Single-  
ply Roof Membrane

1507.12.2

D4829—11

Test Method for Expansion Index of Soils

1803.5.3

D4869/D4869M—15

Specification for Asphalt-saturated (Organic  
Felt) Underlayment Used in Steep Slope  
Roofing

1507.1.1, Table 1507.1.1(1), 1507.18.3,  
1507.18.4.1

D4897/D4897M—01(2009)

Specification for Asphalt-coated Glass Fiber  
Venting Base Sheet Used in Roofing

Table 1507.10.2

D4945—12

Test Method for High-strain Dynamic Testing  
of Deep Foundations

1810.3.3.1.2

D4990—97a(2013)

Specification for Coal Tar Glass Felt Used in  
Roofing and Waterproofing

Table 1507.10.2

D5019—07a

Specification for Reinforced Nonvulcanized  
Polymeric Sheet Used in Roofing Membrane

1507.12.2

D5055—13e1

Specification for Establishing and Monitoring  
Structural Capacities of Prefabricated Wood  
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2303.1.2

D5456—14b

Specification for Evaluation of Structural Composite Lumber Products

2303.1.10

D5516—09

Test Method of Evaluating the Flexural Properties of Fire-retardant Treated Softwood Plywood Exposed to Elevated Temperatures

2303.2.5.1

D5643/D5643M—06(2012)e1

Specification for Coal Tar Roof Cement, Asbestos-free

Table 1507.10.2

D5664—10

Standard Test Method for Evaluating the Effects of Fire-retardant Treatment and Elevated Temperatures on Strength Properties of Fire-retardant Treated Lumber

2303.2.5.2

D5665/D5665M—99a(2014)e1

Specification for Thermoplastic Fabrics Used in Cold-applied Roofing and Waterproofing

Table 1507.10.2

D5726—98(2013)

Specification for Thermoplastic Fabrics Used in Hot-applied Roofing and Waterproofing

Table 1507.10.2

*D5778—12*

*Standard Test Method for Electronic Friction Cone and Piezocone Penetration Testing of Soils*

*1813, 1813A.2*

D6083—05e01

Specification for Liquid Applied Acrylic Coating Used in Roofing

Table 1507.10.2, Table 1507.14.3, 1507.15.2

D6162/D6162M—00a(2015)e1

Specification for Styrene-butadiene-styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements

1507.11.2

D6163/D6163M—00(2015)e1

Specification for Styrene-butadiene-styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements



1507.11.2

D6164/D6164M—11

Specification for Styrene-butadiene-styrene (SBS) Modified Bituminous Sheet Metal Materials Using Polyester Reinforcements

1507.11.2

D6222/D6222M—11

Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using Polyester Reinforcements

1507.11.2

D6223/D6223M—02(2009)e1

Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements

1507.11.2

D6298—13

Specification for Fiberglass Reinforced Styrene-butadiene-styrene (SBS) Modified Bituminous Sheets with a Factory Applied Metal Surface

1507.11.2

D6305—08(2015)e1

Practice for Calculating Bending Strength Design Adjustment Factors for Fire-retardant-treated Plywood Roof Sheathing

2303.2.5.1

D6380/D6380M—03(2013)e1

Standard Specification for Asphalt Roll Roofing (Organic) Felt

Table 1507.1.1(1), 1507.2.8.2, 1507.3.3, 1507.6.5

D6464—03a(2009)e1

Standard Specification for Expandable Foam Adhesives for Fastening Gypsum Wallboard to Wood Framing

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D6509/D6509M—09(2015)

Standard Specification for Atactic Polypropylene (APP) Modified Bituminous Base Sheet Materials Using Glass Fiber Reinforcements

1507.11.2

D6694/D6694M—08(2013)e1

Standard Specification for Liquid-applied Silicone Coating Used in Spray Polyurethane Foam Roofing Systems

Table 1507.14.3, 1507.15.2

D6754/D6754M—10

Standard Specification for Ketone Ethylene  
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1507.13.2

D6757—2013

Specification for Underlayment Felt  
Containing Inorganic Fibers Used in Steep  
Slope Roofing

1507.1.1, Table 1507.1.1(1), 1507.18.3,  
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D6841—08

Standard Practice for Calculating Design  
Value Treatment Adjustment Factors for  
Fire-retardant Treated Lumber

2303.2.5.2

D6878/D6878M—13

Standard Specification for Thermoplastic  
Polyolefin Based Sheet Roofing

1507.13.2

D6947/D6947M—07(2013)e1

Standard Specification for Liquid Applied  
Moisture Cured Polyurethane Coating Used  
in Spray Polyurethane Foam Roofing System

Table 1507.14.3, 1507.15.2

D7032—14

Standard Specification for Establishing  
Performance Ratings for Wood, Plastic  
Composite Deck Boards and Guardrail  
Systems (Guards or Rails)

705.2.3.1, 2612.2, 2612.4, 2612.5.1

D7147—11

Specification for Testing and Establishing  
Allowable Loads of Joist Hangers

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D7158/D7158M—16

Standard Test Method for Wind Resistance  
of Asphalt Shingles (Uplift Force/Uplift  
Resistance Method)

1504.1.1.1, Table 1504.1.1

D7254—15

Standard Specification for Polypropylene  
(PP) Siding

1403.12

D7425/D7425M—13

Standard Specification for Spray  
Polyurethane Foam Used for Roofing  
Applications

1507.14.2

D7655/D7655M—12

Standard Classification for Size of Aggregate  
Used as Ballast for Roof Membrane Systems

1507.12.3, 1507.13.3

D7672—14

Standard Specification for Evaluating  
Structural Capacities of Rim Board Products  
and Assemblies

2303.1.13

E84—16

Standard Test Methods for Surface Burning  
Characteristics of Building Materials

202, 402.6.4.4, 406.7.2, 703.5.2, 720.1, 720.4,  
803.1.2, 803.5.2, 803.10, 803.11, 803.12, 803.13,  
806.7, 1402.5, 1403.12.1, 1406.9, 1406.10.1,  
1408.9, 1408.10.1, 1510.6.2, 1510.6.3, 2303.2,  
2603.3, 2603.4.1.13, 2603.5.4, 2603.5.5, 2603.7,  
2604.2.4, 2606.4, 2612.3, 2614.3, 3105.3,  
D102.2.8

E90—09

Test Method for Laboratory Measurement of  
Airborne Sound Transmission Loss of  
Building Partitions and Elements

1206.2, 1206.2.1

E96/E96M—15

Standard Test Methods for Water Vapor  
Transmission of Materials

202

E108—16

Standard Test Methods for Fire Tests of Roof  
Coverings

1505.1, 2603.6, 2610.2, 2610.3

E119—16

Standard Test Methods for Fire Tests of  
Building Construction and Materials

703.2, 703.2.1, 703.2.3, 703.2.5, 703.3, 703.4,  
703.6, 704.12, 705.7, 705.8.5, 707.6, 712.1.13.2,  
714.4.1, 714.5.1, 715.1, 715.4, Table 716.1(1),  
Table 716.1(2), Table 716.1(3), 716.1.2.3,  
716.2.5.1.1, 716.2.5.4, 716.3.2.1.1, 717.3.1,  
717.5.2, 717.5.3, 717.6.1, 717.6.2, Table 721.1(1),  
2103.1, 2603.5.1

E136—16

Standard Test Method for Behavior of

Materials in a Vertical Tube Furnace at  
750°C

703.5.1

E283—04(2012)

Standard Test Method for Determining Rate  
of Air Leakage through Exterior Windows,  
Curtain Walls and Doors Under Specified  
Pressure Differences across the Specimen

202

E330/E330M—14

Standard Test Method for Structural  
Performance of Exterior Windows, Doors,  
Skylights and Curtain Walls by Uniform  
Static Air Pressure Difference

1709.5.2

E331—00(2009)

Standard Test Method for Water Penetration  
of Exterior Windows, Skylights, Doors and  
Curtain Walls by Uniform Static Air Pressure  
Difference

1402.2

E492—09

Test Method for Laboratory Measurement of  
Impact Sound Transmission Through Floor-  
ceiling Assemblies Using the Tapping  
Machine

1206.3

*E580/E580M—17*

*Standard Practice for Installation of Ceiling  
Suspension Systems for Acoustical Tile and  
Lay-in Panels in Areas Subject to Earthquake  
Ground Motions*

*1617.10.16, 1617A.1.21*

E605/E605M—93(2015)e1

Test Method for Thickness and Density of  
Sprayed Fire-resistive Material (SFRM)  
Applied to Structural Members

1705.14.4.1, 1705.14.4.2, 1705.14.4.5, 1705.14.5

E648—15e1

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

406.2.4, 424.2, 804.2, 804.3, *804.4.1, 804.4.2*

*E662—17a*

*Standard Test Method for Specific Optical  
Density of Smoke Generated by Solid  
Materials*

*804.4.1, 804.4.2*

E681—09(2015)

Test Methods for Concentration Limits of  
Flammability of Chemical Vapors and Gases

202

E736/E736M—00(2015)e1

Test Method for Cohesion/Adhesion of  
Sprayed Fire-resistive Materials Applied to  
Structural Members

704.13.3.2, 1705.14.6

E814—2013A

Test Method for Fire Tests of Penetration  
Firestop Systems

202, 714.4.1.2, 714.4.2, 714.5.1.2

E970—14

Standard Test Method for Critical Radiant  
Flux of Exposed Attic Floor Insulation Using  
a Radiant Heat Energy Source

720.3.1

E1300—12ae1

Practice for Determining Load Resistance of  
Glass in Buildings

2404.1, 2404.2, 2404.3.1, 2404.3.2, 2404.3.3,  
2404.3.4, 2404.3.5

E1354—16

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

424.2

E1592—05(2012)

Test Method for Structural Performance of  
Sheet Metal Roof and Siding Systems by  
Uniform Static Air Pressure Difference

1504.3.2

E1602—03(2010)e1

Guide for Construction of Solid Fuel-burning  
Masonry Heaters

2112.2

E1886—13A

Standard Test Method for Performance of  
Exterior Windows, Curtain Walls, Doors and  
Impact Protective Systems Impacted by  
Missile(s) and Exposed to Cyclic Pressure  
Differentials

1609.2

E1966—15

Standard Test Method for Fire-resistive Joint Systems

202, 715.3

E1996—14a

Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes

1609.2, 1609.2.2

E2072—14

Standard Specification for Photoluminescent (Phosphorescent) Safety Markings

1025.4

E2174—14b

Standard Practice for On-site Inspection of Installed Fire Stops

1705.17.1

E2178—13

Standard Test Method for Air Permeance of Building Materials

202

E2273—03(2011)

Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies

1407.4.1

E2307—15b

Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using the Intermediate-scale, Multistory Test Apparatus

715.4

E2353—14

Standard Test Methods for Performance of Glazing in Permanent Railing Systems, Guards and Balustrades

2407.1.2

E2393—10a(2015)

Standard Practice for On-site Inspection of Installed Fire Resistive Joint Systems and Perimeter Fire Barriers

1705.17.2

E2404—15a

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

803.5.2, 803.12

E2556/E2556M—10

Standard Specification for Vapor Permeable Flexible Sheet Water-resistive Barriers Intended for Mechanical Attachment

2510.6

E2568—09e1

Standard Specification for PB Exterior Insulation and Finish Systems

1407.2

E2570/E2570M—07(2014)e1

Standard Test Method for Evaluating Water-resistive Barrier (WRB) Coatings Used under Exterior Insulation and Finish Systems (EIFS) for EIFS with Drainage

1407.4.1.1, 1705.16.1

E2573—12

Standard Practice for Specimen Preparation and Mounting of Site-fabricated Stretch Systems to Assess Surface Burning Characteristics

803.10

E2579—13

Standard Practice for Specimen Preparation and Mounting of Wood Products to Assess Surface Burning Characteristics

803.11

E2599—15

Standard Practice for Specimen Preparation and Mounting of Reflective Insulation, Radiant Barrier and Vinyl Stretch Ceiling Materials for Building Applications to Assess Surface Burning Characteristics

2614.3

*E2632/E2632M—13*

*Standard Test Method for Evaluating the Under-Deck Fire Test Response of Deck Materials*

*709A.3, 709A.4, 709A.4.1, 709A.5*

E2634—11(2015)

Standard Specification for Flat Wall Insulating Concrete Form (ICF) Systems

1903.4

*E2707—15*

*Standard Test Method for Determining Fire Penetration of Exterior Wall Assemblies Using a Direct Flame Impingement Exposure*

707A.3, 707A.3.1, 708A.3

E2726/E2726—12a

*Standard Test Method for Evaluating the Fire-Test-Response of Deck Structures to Burning Brands*

709A.3, 709A.4, 709A.4.2

E2751/E2751M—13

Practice for Design and Performance of Supported Laminated Glass Walkways

2409.1

E3121—17

*[OSHPPD] Standard Test Methods for Field Testing of Anchors in Concrete or Masonry*

1901.3.4.2, 1910A.5.2

F547—06(2012)

Terminology of Nails for Use with Wood and Wood-base Materials

Table 2506.2

F606/F606M—16

*Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets*

2213.1, 2213A.1

F1292—99

*Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment*

11B-1008.2.6.2

F1292—04

*Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment*

11B-1008.2.6.2

F1487—01

*Standard Consumer Safety Performance Specification for Playground Equipment for Public Use*

202-USE ZONE

F1667—15

Specification for Driven Fasteners: Nails, Spikes and Staples



Table 721.1(2), Table 721.1(3), 1507.2.5,  
1507.17.5, 2303.6, Table 2304.10.1, 2304.10.5,  
Table 2506.2, Table 2603.13.1, Table 2603.13.2

*F1951—99*

*Standard Specification for Determination of  
Accessibility of Surface Systems Under and  
Around Playground Equipment*

*11B-1008.2.6.1*

F2006—17

Standard/Safety Specification for Window  
Fall Prevention Devices for Nonemergency  
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

F2200—14

Standard Specification for Automated  
Vehicular Gate Construction

3110.2

G152—13

Practice for Operating Open Flame Carbon  
Arc Light Apparatus for Exposure of  
Nonmetallic Materials

1504.6

G154—12a

Practice for Operating Fluorescent Light  
Apparatus for UV Exposure of Nonmetallic  
Materials

1504.6

G155—13

Practice for Operating Xenon Arc Light  
Apparatus for Exposure of Nonmetallic  
Materials

1504.6

**AWC**

AWC WCD No. 4—2003

Wood Construction Data—Plank and Beam  
Framing for Residential Buildings

2306.1.2

ANSI/AWC WFCM—2018

American Wood Council  
222 Catoctin Circle SE, Suite 20  
Leesburg, VA 20175

Wood Frame Construction Manual for One- and Two-Family Dwellings

1609.1.1, 1609.1.1.1, 2302.1, 2308.2.4, 2308.6.7.2, 2309.1

ANSI/AWC NDS—2018

National Design Specification (NDS) for Wood Construction—with 2018 NDS Supplement

202, 722.1, Table 1604.3, 1809.12, 1810.3.2.4, Table 1810.3.2.6, 1905.1.8, 2304.13, 2306.1, Table 2306.2(1), Table 2306.2(2), Table 2306.3(1), Table 2306.3(2), 2307.1, Table 2603.1.3.1, Table 2603.13.2

AWC STJR—2015

Span Tables for Joists and Rafters

2306.1.1, 2308.4.2.1, 2308.7.1, 2308.7.2

ANSI/AWC PWF—2015

Permanent Wood Foundation Design Specification

1805.2, 1807.1.4, 2304.10.5.2

ANSI/AWC SDPWS—2015

Special Design Provisions for Wind and Seismic

202, 2305.1, 2305.2, 2305.3, 2306.1, 2306.2, 2306.3, Table 2306.3(1), Table 2306.3(3), 2307.1

# AWCI

Association of the Wall and Ceiling Industr  
513 West Broad Street, Suite 210  
Falls Church, VA 22046

12-B—14

Technical Manual 12B, Third Edition;  
Standard Practice for the Testing and  
Inspection of Field Applied Thin Film  
Intumescent Fire-resistive Materials; an  
Annotated Guide

1705.15

# AWPA

American Wood Protection Associatio  
P.O. Box 361784  
Birmingham, AL 35236-1784

C1—03

All Timber Products—Preservative  
Treatment by Pressure Processes

1505.6

M4—16

Standard for the Care of Preservative-  
treated Wood Products

1810.3.2.4.1, 2303.1.9

U1—17

USE CATEGORY SYSTEM: User Specification  
for Treated Wood Except Commodity  
Specification H

Table 1507.9.6, 1807.1.4, 1807.3.1, 1809.12,  
1810.3.2.4.1, [1812.2](#), [1812A.2](#), 2303.1.9,  
2304.12.1, 2304.12.2, 2304.12.3, 2304.12.4,  
2304.12.5

# AWS

American Welding Societ  
8669 NW 36 Street, #131  
Miami, FL 33166

[D1.1/D1.1M—15](#)

*Structural Welding Code—Steel*

*Table 1705A.2.1, 1705A.2.5, 2204.1.1, 2204A.1.1,  
2212.6.2, 2213.2, 2213A.2*

[D1.2/D1.2M—15](#)

*Structural Welding Code—Aluminum*

[2003.1](#)

[D1.3/D1.3M—08](#)

*Structural Welding Code—Sheet Steel*

*Table 1705A.2.1, 1705A.2.5*

[D1.4/D1.4M—2011](#)

Structural Welding Code—Reinforcing Steel  
Including Metal Inserts and Connections In  
Reinforced Concrete Construction

[1704.5](#), [1704A.5](#), [Table 1705A.2.1](#), [1705.2.5](#),  
[1705A.2.5](#), [Table 1705.3](#), [1705.3.1](#), [1705A.3.1](#),  
[1903.8](#), [1903A.8](#), [2107.3](#)

[D1.8/D1.8M—2016](#)

*Structural Welding Code — Seismic  
Supplement*

*Table 1705A.2.1, 1705A.2.5, 1705.2.5*

[QC1—2016](#)

*Specification for AWS Certification of  
Welding Inspectors*

[1705.2.5](#), [1705A.2.5](#)

# BHMA

Builders Hardware Manufacturers' Associatio  
355 Lexington Avenue, 15th Floor  
New York, NY 10017-6603

[A 156.10—2011](#)

Power Operated Pedestrian Doors

[1010.1.4.2](#), [11B-404.2.9](#), [11B-404.3](#)

[A 156.19—2013](#)

Standard for Power Assist and Low Energy  
Power Operated Doors

1010.1.4.2, 11B-404.2.9, 11B-404.3, 11B-408.3.2.1, 11B-409.3.1

A 156.27—2011

Power and Manual Operated Revolving  
Pedestrian Doors

1010.1.4.1.1

A 156.38—2014

Low Energy Power Operated Sliding and  
Folding Doors

1010.1.4.2

CEN

EN  
1081  
—98

European Committee for Standardization (CEN)  
Central Secretariat  
Rue de Stassart 36  
B-10 50 Brussels

Resilient Floor Coverings—Determination of  
the Electrical Resistance

406.7.1

BS EN 15250—2007

Slow Heat Release Appliances Fired by Solid  
Fuel Requirements and Test Methods

2112.2, 2112.5

CPA

ANSI

Composite Panel Association  
19465 Deerfield Avenue, Suite 30  
Leesburg, VA 20176

A135.4—2012

Basic Hardboard

1403.3.1, 2303.1.7

ANSI A135.5—2012

Prefinished Hardboard Paneling

2303.1.7, 2304.7

ANSI A135.6—2012

Engineered Wood Siding

1403.3.2, 2303.1.7

A208.1—2016

Particleboard

2303.1.8, 2303.1.8.1

CPSC

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

16 CFR Part 1201 (2002)

Safety Standard for Architectural Glazing  
Material

2406.2, Table 2406.2(1), 2406.3.1, 2407.1,  
2407.1.4.1, 2408.2.1, 2408.3, 2409.2, 2409.3.1,  
2409.4.1

16 CFR Part 1209 (2002)

Interim Safety Standard for Cellulose  
Insulation

720.6

16 CFR Part 1404 (2002)

Cellulose Insulation

720.6

16 CFR Part 1500 (2009)

Hazardous Substances and Articles;  
Administration and Enforcement Regulations

202

16 CFR Part 1500.44 (2009)

Method for Determining Extremely  
Flammable and Flammable Solids

202

16 CFR Part 1507 (2002)

Fireworks Devices

202

16 CFR Part 1630 (2007)

Standard for the Surface Flammability of  
Carpets and Rugs

804.4.1

# CSA

Canadian Standards Associatio  
8501 East Pleasant Valley Roa  
Cleveland, OH 44131-5516

AAMA/WDMA/CSA 101/I.S.2/A440—17

North American Fenestration  
Standard/Specifications for Windows, Doors  
and Unit Skylights

1709.5.1, 2405.5

ASME A17.1—2016/CSA B44—16

Safety Code for Elevators and Escalators

907.3.3, 911.1.6, 1009.4.1, 1607.10.1, 3001.2,  
Table 3001.3, 3001.5, 3002.5, 3003.2, 3007.1,  
3008.1.4, 3008.7.1

ASME A17.7—2007/CSA B44.7—07

Performance-based Safety Code for  
Elevators and Escalators

Table 3001.3, 3001.5, 3002.5

# CSSB

Cedar Shake & Shingle Bureau  
P. O. Box 1178  
Sumas, WA 98295-1178

Grading and Packing Rules for Western Red Cedar Shakes and Western Red Shingles of the Cedar Shake and Shingle Bureau

Table 1507.8.5, Table 1507.9.6

# DASMA

**DASMA** Door & Access System:  
Manufacturers Association  
1300 Sumner Avenue  
Cleveland, OH 44115-2851

*ANSI/DASMA 103—2017*

*Standard for Counterbalance Systems on Residential Sectional Garage Doors*

*1210.4*

ANSI/DASMA 107—2017

Room Fire Test Standard for Garage Doors Using Foam Plastic Insulation

2603.4.1.9

ANSI/DASMA 108—2017

Standard Method for Testing Sectional Garage Doors, Rolling Doors and Flexible Doors: Determination of Structural Performance Under Uniform Static Air Pressure Difference

1709.5.2

ANSI/DASMA 115—2016

Standard Method for Testing Sectional Garage Doors, Rolling Doors and Flexible Doors: Determination of Structural Performance Under Missile Impact and Cyclic Wind Pressure

1609.2.3

# DOC

PS  
1—  
09

U.S. Department of Commerce  
National Institute of Standards and Technology  
1401 Constitution Avenue NW  
Washington, DC 20230

Structural Plywood

2303.1.5, 2304.7, Table 2304.8(4), Table 2304.8(5), Table 2306.2(1), Table 2306.2(2)

PS 2—10

Performance Standard for Wood-based Structural-use Panels

2303.1.5, 2304.7, Table 2304.8(5), Table 2306.2(1), Table 2306.2(2)

PS 20—05

American Softwood Lumber Standard

202, 1810.3.2.4, 2303.1.1

DOL

29  
CFR  
Part

1910.1000 (2015)

Air Contaminants

202

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

DOTn

49 CFR Parts 100—185—2015

Hazardous Materials Regulations

202

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

49 CFR Parts 173.137—(2009)

Shippers—General Requirements for Shipments and Packaging—Class 8—Assignment of Packing Group

202

49 CFR Parts 173—178—2015

Specification of Transportation of Explosive and Other Dangerous Articles, UN 0335, UN 0336 Shipping Containers

202

FEMA

FEMA-TB-11—01

Crawlspace Construction for Buildings Located in Special Flood Hazard Areas

1805.1.2.1

Federal Emergency Management Agency  
Federal Center Plaza  
500 C Street S.W.  
Washington, DC 20472

FM

FM 1950—2016

American National

Standard for Seismic Sway Braces for Pipe, Tubing and Conduit

1705A.13.2, 1705.13.2

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

3260—00

Radiant Energy-Sensing Fire Detectors for Automatic Fire Alarm Signaling.

910.3.1

3011—99

Approval Standard for Central Station Service for Fire Alarm and Protective Equipment Supervision

910.3.1

FM 4430—12

Approved Standard for Smoke and Heat Vents

910.3.2

4430—80

Acceptance Criteria for Smoke and Heat Vents

910.3.1

4430—2012

Approval Standard for Heat and Smoke Vents

910.3.1

4450—(1989)

Approval Standard for Class 1 Insulated Steel Deck Roofs—with Supplements through July 1992

1509.2

4470—2016

Approval Standard for Single-ply Polymer-modified Bitumen Sheet, Built-up Roof (BUR) and Liquid Applied Roof Assemblies for Use in Class 1 and Noncombustible Roof Deck Construction

1504.7

4474—2011

American National Standard for Evaluating the Simulated Wind Uplift Resistance of Roof Assemblies Using Static Positive and/or Negative Differential Pressures

1504.3.1, 1504.3.2, 1504.3.3

4880—2015

Approval Standard for Class 1 Fire Rating of Building Panels or Interior Finish Materials

2603.4, 2603.9

GA	GA 216— 2016	Gypsum Association 6525 Belcrest Road, Suite 48 Hyattsville, MD 20782
	Application and Finishing	
of Gypsum Panel Products		
Table 2508.1, 2509.2		

GA 600—2015

Fire-resistance Design Manual, 21st Edition

Table 721.1(1), Table 721.1(2), Table 721.1(3)

ANSI/HPVA HP-1—2016

American National Standard for Hardwood



## ICC

ICC 300  
—17ICC  
Standardon Bleachers, Folding and Telescopic  
Seating and GrandstandsInternational Code Council, Inc  
500 New Jersey Ave NW  
6th Floor  
Washington, DC 20001

1029.1.1, 1029.7, Table 1607.1

ICC 400—17

Standard on Design and Construction of Log  
Structures

2302.2

ICC 500—14

ICC/NSSA Standard on the Design and  
Construction of Storm Shelters

202, 423.1, 423.2, 423.3, 423.4, 1604.5.1, 1604.10

ICC 600—14

Standard for Residential Construction in  
High-wind Regions

1609.1.1, 1609.1.1.1, 2308.2.4

ICC 900/SRCC 300—2015

Solar Thermal System Standard

3111.2.1

ICC 901/SRCC 100—2015

Solar Thermal Collector Standard

3111.2.1

*ICC-ES AC 01—18\***Acceptance Criteria for Expansion Anchors  
in Masonry Elements**1617A.1.19**ICC-ES AC 58—18\***Acceptance Criteria for Adhesive Anchors in  
Masonry Elements**1617A.1.19**ICC-ES AC 70—18\***Acceptance Criteria for Fasteners Power-  
Driven into Concrete, Steel and Masonry  
Elements**1617A.1.20**ICC-ES AC 77*

*Acceptance Criteria for Smoke Containment  
Systems Used with Fire-resistance-rated  
Elevator Hoistway Doors and Frames*

**707.14.1**

*ICC-ES AC 106—18\**

*Acceptance Criteria for Predrilled Fasteners  
(Screw Anchors) in Masonry*

**1617A.1.19**

*ICC-ES AC 125—18\**

*Acceptance Criteria for Concrete, and  
Reinforced and Unreinforced Masonry  
Strengthening Using Externally Bonded  
Fiber-Reinforced Polymer (FRP) Composite  
Systems*

**1911A.3, 1911.3**

*ICC-ES AC 156—18\**

*Acceptance Criteria for Seismic Certification  
by Shake-Table Testing of Nonstructural  
Components*

**1705A.13.3**

*ICC-ES AC 178—18\**

*Acceptance Criteria for Inspection and  
Verification of Concrete, and Reinforced and  
Unreinforced Masonry Strengthening Using  
Fiber-Reinforced Polymer (FRP) Composite  
Systems*

**1911A.3, 1911.3**

*ICC-ES AC 193—18\**

*Acceptance Criteria for Mechanical Anchors  
in Concrete Elements*

**1617A.1.19, 1901.3.2**

*ICC-ES AC 232—18\**

*Acceptance Criteria for Anchor Channels in  
Concrete Elements*

**1617A.1.19, 1901.3.2**

*ICC-ES AC 308—18\**

*Acceptance Criteria for Post-Installed  
Adhesive Anchors in Concrete Elements*

**1617A.1.19, 1901.3.3**

*ICC-ES AC 331*

*Acceptance Criteria for Smoke and Heat  
Vents*

**910.3.1**

*ICC-ES AC 358—18\**

*Acceptance Criteria for Helical Foundation  
Systems and Devices*

1810A.3.1.5.1, 1810.3.1.5.1

ICC-ES AC 446—18\*

Acceptance Criteria for Headed Cast-in  
Specialty Inserts in Concrete

1617A.1.19, 1901.3.2

SBCCI SSTD 11—97

Test Standard for Determining Wind  
Resistance of Concrete or Clay Roof Tiles

1504.2.1.1, 1504.2.1.2

\* Refers to International Building Code, 2018 as a reference standard.

ISO

8115—  
86

Cotton

Bales—Dimensions and Density

Table 307.1(1), Table 415.11.1.1.1

International Organization for Standardization  
Chemin de Blandonnet 8  
CP 401  
1214 Vernier  
Geneva, Switzerland

ISO 8336—09

Fiber-cement Flat Sheets—Product  
Specification and Test Methods

1403.10, 1404.16.1, 1404.16.2, Table 2509.2

ISO 9001—15

Quality Management Systems -  
Requirements

1705A.13.3

ANSI

MHI

MH29.1—08

Safety Requirements for Industrial Scissors  
Lifts

Table 3001.3

Material Handling Institute  
8720 Red Oak Blvd. Suite 20  
Charlotte, NC 28217

NAAMM

FP 1001—17

Guide Specifications for Design of Metal Flag  
Poles

1609.1.1

National Association of Architectural Metal Manufacturer  
800 Roosevelt Road, Bldg. C, Suite 312  
Glen Ellyn, IL 60137

NCMA

TEK 5—84(1996)

National Concrete Masonry Association  
13750 Sunrise Valley  
Herndon, VA 22071-4662

Table 721.1(2)

# NFPA

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

10—18

Standard for Portable Fire Extinguishers

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

11—16

Standard for Low Expansion Foam

904.7, *3109F*

12—15

Standard on Carbon Dioxide Extinguishing  
Systems

904.8, 904.12

12A—15

Standard on Halon 1301 Fire Extinguishing  
Systems

904.9

13—16	Standard for Installation of Sprinkler Systems	712.1.3.1, 903.3.1.1, 903.3.2, 903.3.8.2, 903.3.8.5, 904.12, 905.3.4, 907.6.4, 1019.3
	<p><b><i>*NFPA 13, Amended Sections as follows:</i></b></p> <p><b><i>Revise Section 2.2 and add publications as follows:</i></b></p> <p><b><i>2.2 NFPA Publications.</i></b></p> <p>NFPA 25, <i>Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems</i>, 2013 California edition.</p> <p><b><i>Revise Section 8.15.1.2.15 as follows:</i></b></p> <p><b><i>8.15.1.2.15</i></b> Exterior columns under 10 ft<sup>2</sup> (0.93m<sup>2</sup>) in total area, formed by studs or wood joist, <i>with no sources of ignition within the column</i>, supporting exterior canopies that are fully protected with a sprinkler system, shall not require sprinkler protection.</p> <p><b><i>Revise Section 8.15.5.3 as follows:</i></b></p> <p><b><i>8.15.5.3 Automatic sprinkler system.</i></b> Automatic sprinklers shall not be required to be installed in the elevator hoistway, elevator machine room, elevator machinery space, elevator control space, or elevator control room where all the following are met:</p> <ol style="list-style-type: none"><li>1. <i>Approved smoke detectors shall be installed and connected to the building fire alarm system in accordance with Section 907 in the area where the fire sprinkler was removed per this section.</i></li><li>2. <i>Activation of any smoke detector located in the elevator hoistway, elevator machine room, elevator machinery space, elevator control space, or elevator control room shall cause</i></li></ol>	

*the actuation of the building fire alarm notification appliances in accordance with Section 907.*

3. *Activation of any smoke detector located in the elevator hoistway, elevator machine room, elevator machinery space, elevator control space, or elevator control room shall cause all elevators having any equipment located in that elevator hoistway, elevator machine room, elevator machinery space, elevator control space, or elevator control room to recall nonstop to the appropriate designated floor in accordance with CCR Title 8, Division 1, Chapter 4, Subchapter 6, Elevator Safety Orders.*
4. *The elevator machine room, elevator machinery space, elevator control space, or elevator control room shall be enclosed with fire barriers constructed in accordance with CBC Section 707 or horizontal assemblies constructed in accordance with CBC Section 712, or both. The fire-resistance rating shall not be less than the required rating of the hoistway enclosure served by the machinery. Openings in the fire barriers shall be protected with assemblies having a fire protection rating not less than that required for the hoistway enclosure doors. The exceptions to CBC Section 3005.4 shall not apply.*
5. *The building fire alarm system shall be monitored by an approved supervising station in accordance with Section 907.*
6. *An approved sign shall be permanently displayed in the room where the fire sprinkler was removed per this section in a conspicuous location with a minimum of 1<sup>1</sup>/<sub>2</sub>-inch letters on a contrasting background, stating:*

NO COMBUSTIBLE STORAGE  
PERMITTED IN THIS ROOM

By Order of the Fire Marshal [or name of fire authority]

**Add new Sections 8.15.5.6.1 as follows:**

**8.15.5.6.1** *The sprinkler required at the top and bottom of the elevator hoistway by 8.15.5.6 shall not be required where permitted by Chapter 30 of the California Building Code.*

**Revise Section 8.15.7.1\* as follows:**

**8.15.7.1\*** Unless the requirements of 8.15.7.2 or 8.15.7.3 are met, sprinklers shall be installed under exterior roofs, canopies, portecochere, balconies, decks, or similar projections exceeding 4 ft (1.2 m) in width.

**Revise Section 8.15.7.2\* as follows:**

**8.15.7.2\*** Sprinklers shall be permitted to be omitted where the exterior canopies, roofs, portecocheres, balconies, decks, or similar projections are constructed with materials that are noncombustible, limited-combustible, or fire retardant treated wood as defined in NFPA 703, *Standard for Fire Retardant—Treated Wood and Fire-Retardant Coatings for Building Materials*.

**Delete Section A.8.15.7.2 of Annex**

**Revise Section 8.15.7.3**

**8.15.7.3** Sprinklers shall be permitted to be omitted from below the canopies, roofs, balconies, decks, or similar projections are combustible construction, provided the exposed finish material on the roof, or canopy is noncombustible, limited-combustible, or fire retardant treated wood as defined in NFPA 703, *Standard for Fire Retardant—Treated Wood and Fire-Retardant Coatings for Building Materials* and the roofs, or canopies contains only sprinklered concealed spaces or any of the following unsprinklered combustible concealed spaces:

- (1) *Combustible concealed spaces filled entirely with*

*noncombustible insulation.*

- (2) *Light or ordinary hazard occupancies where noncombustible or limited-combustible ceilings are directly attached to the bottom of solid wood joists so as to create enclosed joist spaces 160 ft<sup>3</sup> (4.5 m<sup>3</sup>) or less in volume, including space below insulation that is laid directly on top or within the ceiling joists in an otherwise sprinklered attic [See 11.2.3.1.5.2(9)].*
- (3) *Concealed spaces over isolated small roofs, or canopies not exceeding 55 ft<sup>2</sup> (5.1 m<sup>2</sup>).*

**Delete language to section 8.15.7.4 and reserve section number.**

**8.15.7.4 Reserved.**

**Revise Annex Section A.8.15.7.5 as follows:**

**A.8.15.7.5** *The presence of planters, newspaper machines and similar items, should not be considered storage.*

**Add Section 8.15.7.6 as follows:**

**8.15.7.6** *Sprinklers may be omitted for following structures:*

- (1) *Solar photovoltaic panel structures with no use underneath. Signs may be provided, as determined by the enforcing agency prohibiting any use underneath including storage.*
- (2) *Solar photovoltaic (PV) panels supported by framing that have sufficient uniformly distributed and unobstructed openings throughout the top of the array (horizontal plane) to allow heat and gases to escape, as determined by the enforcing agency.*

**Add new Sections 8.16.1.1.1.4 and 8.16.1.1.1.5 as follows:**

**8.16.1.1.1.4** *Where a system includes floor control valves, a hydraulic design information sign containing information for the floor shall be provided at each floor control valve. A hydraulic design information sign shall be provided for each area calculated. The installing contractor shall identify a hydraulically designed sprinkler system with a permanently marked weatherproof metal or rigid plastic sign secured with corrosion resistant wire, chain, or other approved means. Such signs shall be placed at the alarm valve, dry pipe valve, preaction valve, or deluge valve supplying the corresponding hydraulically designed area.*

**8.16.1.1.1.5** *Control valves, check valves, drain valves, antifreeze valves shall be readily accessible for inspection, testing, and maintenance. Valves located more than 7 feet above the finished floor shall be provided with a means of opening and closing the valve from the floor level.*

**Add new Sections 8.16.1.6, 8.16.1.6.1, 8.16.1.6.1.1, 8.16.1.6.1.2, 8.16.1.6.1.3, 8.16.1.6.2, as follows:**

**8.16.1.6 Sectional Valves.**

**8.16.1.6.1** *Private fire service main systems shall have sectional control valves at appropriate points in order to permit sectionalizing the system in the event of a break or for the making of repairs or extensions.*

**8.16.1.6.1.1** *Sectional control valves are not required when the fire service main system serves less than six fire appurtenances.*

**8.16.1.6.1.2** *Sectional control valves shall be indicating valves in accordance with Section 6.6.1.3.*

**8.16.1.6.1.3** *Sectional control valves shall be located so that no more*

than five fire appurtenances are affected by shut-down of any single portion of the fire service main. Each fire hydrant, fire sprinkler system riser, and standpipe riser shall be considered a separate fire appurtenance. In-rack sprinkler systems shall not be considered as a separate appurtenance.

**8.16.1.6.1.4** The number of fire appurtenances between sectional control valves is allowed to be modified by the authority having jurisdiction.

**8.16.1.6.2** A valve shall be provided on each bank where a main crosses a body of water or outside the building foundation(s) where the main or section of main runs under a building.

**Add new Section 9.1.3.9.1.1 as follows:**

**9.1.3.9.1.1** Powder-driven studs used for attaching hangers to the building structure are prohibited in Seismic design Categories C, D, E and F.

**Revise Section 9.3.5.11.4 as follows:**

**9.3.5.11.4** Where threaded pipe is used for sway bracing, it shall have a wall thickness of not less than Schedule 40.

**Replace Section 9.3.5.12.5 as follows:**

**9.3.5.12.5** Lag screws or power-driven fasteners shall not be used to attach braces to the building structure.

**Replace Section 9.3.5.12.6 as follows:**

**9.3.5.12.6** Fastening methods other than those identified in 9.3.5.12 shall not apply to other fastening methods, which shall be acceptable for use if certified by a registered professional engineer to support the loads determined in accordance with the criteria in 9.3.5.9. Calculations shall be submitted to the authority having jurisdiction.

**Revise Section 9.3.5.12.8.4 as follows:**

**9.3.5.12.8.4** Concrete anchors other than those shown in Table 9.3.5.12.2(a) through Table 9.3.5.12.2(f) and identified in 9.3.5.11.11 shall be acceptable for use where designed in accordance with the requirements of the building code and certified by a registered professional engineer.

**Revise Section 9.3.6.1(3) as follows:**

**9.3.6.1(3)** No. 12,440 lb (200 Kg) wire installed at least 45 degrees from the vertical plane and anchored on both sides of the pipe. Powder-driven fasteners for attaching restraint is allowed to be used provided that the restraint component does not support the dead load.

**Revise Section 10.4.3.1.1 as follows:**

**10.4.3.1.1** Pipe joints shall not be located under foundation footings. The pipe under the building or building foundation shall not contain mechanical joints.

**Exceptions:**

1. Where allowed in accordance with Section 10.4.3.2.
2. Alternate designs may be utilized where designed by a registered professional engineer and approved by the enforcing agency.

**Revise Section 11.2.3.1.5.2(9) as follows:**

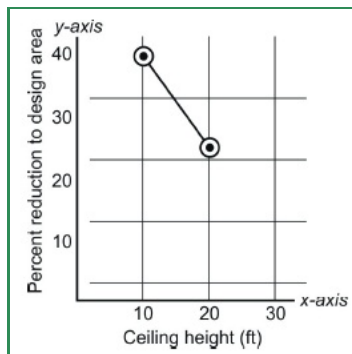
**11.2.3.1.5.2(9)** Exterior columns under 10 ft<sup>2</sup> (0.93m<sup>2</sup>) in total area, formed by studs or wood joist, with no sources of ignition within the column, supporting exterior canopies that are fully protected with a

sprinkler system.

**Revise Section 11.2.3.2.3.1 as follows:**

**11.2.3.2.3.1** Where listed quick-response sprinklers, excluding extended coverage quick-response sprinklers, are used throughout a system or portion of a system having the same hydraulic design basis, the system area of operation shall be permitted to be reduced without revising the density as indicated in Figure 11.2.3.2.3.1 when all of the following conditions are satisfied:

- (1) Wet pipe system
- (2) Light hazard occupancy
- (3) 20 ft (6.1 m) maximum ceiling height
- (4) There are no unprotected ceiling pockets as allowed by 8.6.7 and 8.8.7 exceeding 32 ft<sup>2</sup> (3 m<sup>2</sup>)



Note:

$$y = \frac{-3x}{2} + 55$$

For ceiling height  $\geq 10$  ft and  $\leq 20$  ft,

$$y = \frac{-3x}{2} + 55$$

For ceiling height  $< 10$  ft,  $y = 40$

For ceiling height  $> 20$  ft,  $y = 0$

For SI units, 1 ft = 0.31 m.

**Revise Section 11.2.3.2.3.2 as follows:**

**11.2.3.2.3.2** The number of sprinklers in the design area shall never be less than *seven*.

**Revise Section 12.1.1.2 as follows:**

**12.1.1.2** Early suppression fast-response (ESFR) sprinklers shall not be used in buildings with automatic heat or smoke vents unless the vents use a standard-response operating mechanism *with a minimum temperature rating of 360°F (182°C) or 100°F (56°C) above the operating temperature of the sprinklers, whichever is higher.*

**[Add Section 23.2.1.1 as follows:]**

**23.2.1.1\*** Where a waterflow test is used for the purposes of system design, the test shall be conducted no more than 12 6 months prior to working plan submittal unless otherwise approved by the authority having jurisdiction.

**Revise Section 25.1 as follows:**

**25.1 Approval of Sprinkler Systems and Private Fire Service Mains.** The installing contractor shall do the following:



- (1) Notify the authority having jurisdiction and the property owner or property owner's authorized representative of the time and date testing will be performed.
- (2) Perform all required testing (*see Section 25.2*).
- (3) Complete and sign the appropriate contractor's material and test certificate(s) (*see Figure 25.1*).
- (4) Remove all caps and straps prior to placing the sprinkler system in service.
- (5) Upon system acceptance by the authority having jurisdiction a label prescribed by Title 19 California Code of Regulations, Chapter 5 shall be affixed to each system riser.

**Revise Section 25.4 as follows:**

**25.4 Instructions.** The installing contractor shall provide the property owner or the property owner's authorized representative with the following:

- (1) All literature and instructions provided by the manufacturer describing proper operation and maintenance of any equipment and devices installed.
- (2) NFPA 25, *Standard for the Inspection, testing, and maintenance of Water-Based Fire Protection Systems, 2013 California Edition*.
- (3) *Title 19, California Code of Regulations, Chapter 5, "Fire Extinguishing Systems."*

**Revise Section 25.5.1 as follows:**

**25.5.1** The installing contractor shall identify a hydraulically designed sprinkler system with a permanently marked weatherproof metal or rigid plastic sign secured with corrosion resistant wire, chain, or other approved means. Such signs shall be placed at the alarm valve, dry pipe valve, preaction valve, or deluge valve supplying the corresponding hydraulically designed area. *Pipe schedule systems shall be provided with a sign indicating that the system was designed and installed as a pipe schedule system and the hazard classification(s) included in the design.*

**Revise Section 25.5.2 as follows:**

**25.5.2** The sign shall include the following information:

- (1) *Location of the design area or areas*
- (2) *Discharge densities over the design area or areas*
- (3) *Required flow and pressure of the system at the base of the riser.*
- (4) *Occupancy classification or commodity classification and maximum permitted storage height and configuration*
- (5) *Hose stream allowance included in addition to the sprinkler demand*
- (6) *The name of the installing contractor*
- (7) *Required flow and pressure of the system at the water supply source.*
- (8) *Required flow and pressure of the system at the discharge side of the fire pump where a fire pump is installed.*
- (9) *Type or types and number of sprinklers or nozzles installed including the orifice size, temperature rating, orientation, K-Factor, sprinkler identification number (SIN) for sprinkler heads when applicable, and response type.*

- (10) *The minimum discharge flow rate and pressure required from the hydraulically most demanding sprinkler.*
- (11) *The required pressure settings for pressure reducing valves.*
- (12) *For deluge sprinkler systems, the required flow and pressure at the hydraulically most demanding sprinkler or nozzle.*
- (13) *The protection area per sprinkler based on the hydraulic calculations.*
- (14) *The edition of NFPA 13 to which the system was designed and installed.*

**Revise Section 25.6.1 as follows:**

**25.6.1** The installing contractor shall provide a general information sign used to determine system design basis and information relevant to the inspection, testing, and maintenance requirements required by NFPA 25, *Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, 2013 California Edition*.

13D—16	Standard for the Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes, <i>as amended</i> *	903.3.1.3
	<p><b>*NFPA 13D, Amended Sections as follows:</b></p> <p><b>Revise Section 6.2.2 to read as follows:</b></p> <p><b>6.2.2</b> Where a <i>well, pump, tank or combination thereof</i> is the source of supply for a fire sprinkler system, <i>the configuration for the system shall be one of the following:</i></p> <ul style="list-style-type: none"> <li>(1) <i>The water supply shall serve both domestic and fire sprinkler systems.</i> <ul style="list-style-type: none"> <li>(a) A test connection shall be provided downstream of the pump that creates a flow of water equal to the smallest sprinkler on the system. The connection shall return water to the tank.</li> <li>(b) Any disconnecting means for the pump shall be approved.</li> <li>(c) A method for refilling the tank shall be piped to the tank.</li> <li>(d) A method of seeing the water level in the tank shall be provided without having to open the tank.</li> <li>(e) The pump shall not be permitted to sit directly on the floor.</li> </ul> </li> <li>(2) <i>A stand-alone tank is permitted if the following conditions are met:</i> <ul style="list-style-type: none"> <li>(a) The pump shall be connected to a 220-volt circuit breaker shared with a common household appliance (e.g., range, oven, dryer),</li> <li>(b) The pump shall be a stainless steel 240-volt pump,</li> <li>(c) A valve shall be provided to exercise the pump. The discharge of the exercise valve shall drain to the tank, and</li> <li>(d) A sign shall be provided stating: "Valve must be opened monthly for 5 minutes."</li> <li>(e) A means for automatically refilling the tank level, so that the tank capacity will meet the required water supply duration in minutes, shall be provided.</li> <li>(f) A test connection shall be provided downstream of the</li> </ul> </li> </ul>	

- (f) A test connection shall be provided downstream of the pump that creates a flow of water equal to the smallest sprinkler on the system. The connection shall return water to the tank.
- (g) Any disconnecting means for the pump shall be approved.
- (h) A method for refilling the tank shall be piped to the tank.
- (i) A method of seeing the water level in the tank shall be provided without having to open the tank.
- (j) The pump shall not be permitted to sit directly on the floor.

**Add new Section 6.2.2.1 as follows:**

**6.2.2.1** *Where a fire sprinkler system is supplied by a stored water source with an automatically operated means of pressurizing the system other than an electric pump, the water supply may serve the sprinkler system only.*

**Add new Section 6.2.4 as follows:**

**6.2.4** *Where a water supply serves both domestic and fire sprinkler systems, 5 gpm (19 L/min) shall be added to the sprinkler system demand at the point where the systems are connected, to determine the size of common piping and the size of the total water supply requirements where no provision is made to prevent flow into the domestic water system upon operation of a sprinkler. For multipurpose piping systems, the 5 gpm (19 L/min) demand shall be added at the domestic connection nearest the design area. This demand may be split between two domestic connections at 2.5 gpm (10 L/min) each.*

**Revise Section 8.3.4 as follows:**

**8.3.4\*** Sprinklers shall not be required in *detached* garages, open attached porches, carports *with no habitable space above*, and similar structures.

**Add new Sections 8.3.10 and 8.3.10.1 as follows:**

**8.3.10 Solar photovoltaic panel structures**

**8.3.10.1** *Sprinklers shall be permitted to be omitted from the following structures:*

- (1) *Solar photovoltaic panel structures with no use underneath. Signs may be provided, as determined by the enforcing agency prohibiting any use underneath including storage.*
- (2) *Solar photovoltaic (PV) panels supported by framing that have sufficient uniformly distributed and unobstructed openings throughout the top of the array (horizontal plane) to allow heat and gases to escape, as determined by the enforcing agency.*

13R—16	Standard for the Installation of Sprinkler Systems in Low-rise Residential Occupancies	903.3.1.2, 903.3.5.2, 903.4
<p><b>*NFPA 13R, Amended Sections as follows:</b></p> <p><b>Revise Section 2.2 and add publications as follows:</b></p> <p><b>2.2 NFPA Publications.</b></p> <p><i>NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, 2013 California edition.</i></p> <p><b>Add new Sections 6.6.10 and 6.10.1 as follows:</b></p> <p><b>6.6.10 Solar photovoltaic panel structures</b></p> <p><b>6.6.10.1</b> <i>Sprinklers shall be permitted to be omitted from the following structures:</i></p> <ol style="list-style-type: none"> <li><i>(1) Solar photovoltaic panel structures with no use underneath. Signs may be provided, as determined by the enforcing agency prohibiting any use underneath including storage.</i></li> <li><i>(2) Solar photovoltaic (PV) panels supported by framing that have sufficient uniformly distributed and unobstructed openings throughout the top of the array (horizontal plane) to allow heat and gases to escape, as determined by the enforcing agency.</i></li> </ol> <p><b>Revise Section 11.4 as follows:</b></p> <p><b>11.4 Instructions.</b></p> <p><i>The installing contractor shall provide the property owner or the property owner's authorized representative with the following:</i></p> <ol style="list-style-type: none"> <li><i>(1) All literature and instructions provided by the manufacturer describing proper operation and maintenance of any equipment and devices installed.</i></li> <li><i>(2) NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems 2013 California Edition and Title 19, California Code of Regulations, Chapter 5.</i></li> <li><i>(3) Once the system is accepted by the authority having jurisdiction a label as prescribed by Title 19, California Code of Regulations, Chapter 5, shall be affixed to each system riser.</i></li> </ol>		

14—16	Standard for the Installation of Standpipe and Hose System, <i>as amended*</i>	905.2, 905.3.4, 905.4.2, 905.6.2, 905.8
<p><b><i>*NFPA 14, Amended Sections as follows:</i></b></p> <p><b><i>Replace Section 6.3.7.1</i></b></p> <p><b><i>6.3.7.1 System water supply valves, isolation control valves, and other valves in fire mains shall be supervised in an approved manner in the open position by one of the following methods:</i></b></p> <p><i>(1) Where a building has a fire alarm system or a sprinkler monitoring system installed, the valve shall be supervised by:</i></p> <p><i>(a) a central station, proprietary, or remote supervising station, or</i></p> <p><i>(b) a local signaling service that initiates an audible signal at a constantly attended location.</i></p> <p><i>(2) Where a building does not have a fire alarm system or a sprinkler monitoring system installed, the valve shall be supervised by:</i></p> <p><i>(a) Locking the valves in the open position, or</i></p> <p><i>(b) Sealing of valves and an approved weekly recorded inspection where valves are located within fenced enclosures under the control of the owner.</i></p>		
16—15	Standard for the Installation of Foam-water Sprinkler and Foam-water Spray Systems	904.7, 904.12
17—17	Standard for Dry Chemical Extinguishing Systems	904.6, 904.12
17A—17	Standard for Wet Chemical Extinguishing Systems	904.5, 904.12
20—16	Standard for the Installation of Stationary Pumps for Fire Protection	412.2.4.1, 913.1, 913.2, 913.2.1, 913.5
24—16	Installation of Private Fire Service Mains and Their Appurtenances, as amended*	3109f

**\*NFPA 24, Amended Sections as follows:**

**Amend Section 4.2.1 as follows:**

**Section 4.2.1.** Installation work shall be done by fully experienced and responsible *contractors. Contractors shall be appropriately licensed in the State of California to install private fire service mains and their appurtenances.*

**Revise Section 4.2.2 as follows:**

**4.2.2** *Installation or modification of private fire service mains shall not begin until plans are approved and appropriate permits secured from the authority having jurisdiction.*

**Add Section 4.2.2.1 as follows:**

**4.2.2.1** *As approved by the authority having jurisdiction, emergency repair of existing system may start immediately, with plans being submitted to the authority having jurisdiction within 96 hours from the start of the repair work.*

**Revise Section 5.9.5.1 as follows:**

**5.9.5.1** *Fire department connections shall be on the street side of buildings and as approved by the authority having jurisdiction.*

**Add Sections 6.6.1.1, 6.6.1.2, 6.6.1.3 and 6.6.1.4 as follows:**

**6.6.1.1** *Sectional control valves are not required when the fire service main system serves less than six fire appurtenances.*

**6.6.1.2** *Sectional control valves shall be indicating valves in accordance with NFPA 13, Section 6.7.1.3.*

**6.6.1.3** *Sectional control valves shall be located so that no more than five fire appurtenances are affected by shut-down of any single portion of the fire service main. Each fire hydrant, fire sprinkler system riser, and standpipe riser shall be considered a separate fire appurtenance. In-rack sprinkler systems shall not be considered as a separate appurtenance.*

**6.6.1.4** *The number of fire appurtenances between sectional control valves is allowed to be modified by the authority having jurisdiction.*

**Revise Section 10.4.3.1.1 as follows:**

**10.4.3.1.1** *Pipe joints shall not be located under foundation footings. The pipe under the building or building foundation shall not contain mechanical joints.*

**Exceptions:**

1. *Where allowed in accordance with 10.4.3.2.*
2. *Alternate designs may be utilized where designed by a registered professional engineer and approved by the enforcing agency.*

**Revise Section 10.9.1 as follows:**

**10.9.1** *Backfill shall be well tamped in layers or puddle under and around pipes to prevent settlement or lateral movement. Backfill shall consist of clean fill sand or pea gravel to a minimum 6" below and to a minimum of 12" above the pipe and shall contain no ashes, cinders, refuse, organic matter, or other corrosive materials. Other backfill materials and methods are permitted where designed by a registered professional engineer and approved by the enforcing agency.*

25—  
13CA

**California NFPA 25 Edition (Based on the 2011 Edition)** Inspection, Testing and Maintenance of Water-based Fire Protection Systems

Chapter 31F,  
3108F

30—18

Flammable and Combustible Liquids Code

415.6, 507.8.1.1.1, 507.8.1.1.2

30A—18

Code for Motor Fuel Dispensing Facilities and  
Repair Garages

406.2.9.2

31—16

Standard for the Installation of Oil-burning  
Equipment

2113.15

32—16	Standard for Dry Cleaning Plants, <i>as amended*</i>	415.9.3, <i>2101.1.1</i>
	<p><b>*NFPA 32, Amended Sections as follows:</b></p> <p><b>Delete the following publications from Section 2.2:</b></p> <p><b>2.2 NFPA Publications.</b></p> <p>NFPA 10, <i>Standard for Portable Fire Extinguishers</i>, 2010 edition.</p> <p>NFPA 25, <i>Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems</i>, 2011 edition.</p> <p>NFPA 70, <i>National Electrical Code</i>®, 2011 edition.</p> <p>NFPA 101®, <i>Life Safety Code</i>®, 2009 edition.</p> <p>NFPA 5000®, <i>Building Construction and Safety Code</i>®, 2009 edition.</p> <p><b>Revise Section 4.4.1.1 as follows:</b></p> <p><b>4.4.1.1</b> General building and structure design and construction shall be in accordance with <i>California Building Code</i>.</p> <p><b>Delete language to Sections 4.4.1.2 and 4.4.1.3 and reserve section numbers.</b></p> <p><b>4.4.1.2 Reserved</b></p> <p><b>4.4.1.3 Reserved</b></p> <p><b>Revise Section 4.4.4 as follows:</b></p> <p><b>4.4.4 Means of Egress.</b> Means of egress shall conform with the provisions of the <i>California Building Code</i>.</p> <p><b>Revise Section 4.6.2 as follows:</b></p> <p><b>4.6.2 Automatic Sprinkler Systems.</b> Where required by this standard, automatic sprinkler systems shall be installed in accordance with NFPA 13, <i>Standard for the Installation of Sprinkler Systems</i> and periodically inspected, tested, and maintained in accordance with <i>California Code of Regulations, Title 19, Division 1, Chapter 5</i>.</p> <p><b>Revise Section 4.6.4 as follows:</b></p> <p><b>4.6.4 Portable Fire Extinguishers.</b> Suitable numbers and types of portable fire extinguishers shall be installed and maintained throughout the drycleaning plant in accordance with <i>California Code of Regulations, Title 19, Division 1, Chapter 3</i>.</p> <p><b>Revise Section 7.3.2 as follows:</b></p> <p><b>7.3.2 Electrical Installations.</b> Electrical equipment and wiring in a Type II drycleaning room shall comply with the provisions of <i>California Electrical Code</i>, for use in Class I, Division 2 hazardous locations.</p>	
37—15	<i>Installation and Use of Stationary Combustion Engines and Gas Turbines</i>	

40—16

Standard for the Storage and Handling of  
Cellulose Nitrate Film

409.1

45—15

Standard on Fire Protection Laboratories  
Using Chemicals (2015 Edition)



54—15

National Fuel Gas Code

58—17

Liquefied Petroleum Gas Code

415.9.2

61—17

Standard for the Prevention of Fires and  
Dust Explosions in Agricultural and Food  
Product Facilities

426.1

70—17

National Electrical Code

108.3, 406.2.7, 406.2.9, 412.5.7, 415.11.1.8, Table  
509, 904.3.1, 907.6.1, 909.12.2, 909.16.3, 910.4.6,  
1204.4.1, 2701.1, 2702.1.3, 3111.3

72—16	National Fire Alarm and Signaling Code, <i>as amended*</i>	407.4.4.3, 407.4.4.5, 407.4.4.5.1, 901.6, 903.4.1, 904.3.5, 907.1.2, 907.2, 907.2.6, 907.2.9.3, 907.2.10, 907.2.12.2, 907.3, 907.3.3, 907.3.4, 907.5.2.1.2, 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, 911.1.6, 917.1, 2702.2.4, 3005.5, 3007.7, <i>3108F</i>
<p><b><i>*NFPA 72, Amended Sections as follows:</i></b></p> <p><b><i>Revise Section 10.3.1 as follows:</i></b></p> <p><b>10.3.1</b> Equipment constructed and installed in conformity with this Code shall be listed for the purpose for which it is used. <i>Fire alarm systems and components shall be California State Fire Marshal approved and listed in accordance with California Code of Regulations, Title 19, Division 1.</i></p> <p><b><i>Revise Section 10.3.3 as follows:</i></b></p> <p><b>10.3.3</b> All devices and appliances that receive their power from the initiating device circuit or signaling line circuit of a control unit shall be <i>California State Fire Marshal</i> listed for use with the control unit.</p> <p><b><i>Revise Section 10.7.1 as follows:</i></b></p> <p><b>10.7.1</b> <i>Where approved by the authority having jurisdiction, ECS priority signals when evaluated by stakeholders through risk analysis in accordance with 24.3.11 shall be permitted to take precedence over all other signals.</i></p> <p><b><i>Revise Section 12.3.8.1 as follows:</i></b></p> <p><b>12.3.8.1</b> The outgoing and return (redundant) circuit conductors shall be</p>		

permitted in the same cable assembly (i.e., multiconductor cable), enclosure, or raceway only under the following conditions:

- (1) For a distance not to exceed 10 ft (3.0 m) where the outgoing and return conductors enter or exit the initiating device, notification appliance, or control unit enclosures.
- (2) Single drops installed in the raceway to individual devices or appliances.
- (3) \*In a single room not exceeding 1000 ft<sup>2</sup> (93 m<sup>2</sup>) in area, a drop installed in the raceway to multiple devices or appliances that does not include any emergency control function devices.
- (4) Where the vertically run conductors are contained in a 2-hour rated cable assembly, or enclosed (installed) in a 2-hour rated enclosure or a listed circuit integrity (C.I.) cable, which meets or exceeds a 2-hour fire-resistive rating.

**Revise Section 14.4.6.1 as follows:**

**14.4.6.1 Testing.** Household fire alarm systems shall be tested in accordance with the manufacturer's published instructions according to the methods of Table 14.4.3.2.

**Revise Section 17.15 as follows:**

**17.15 Fire Extinguisher Electronic Monitoring Device.** A fire extinguisher electronic monitoring device shall indicate those conditions for a specific fire extinguisher required by *California Code of Regulations, Title 19, Division 1, Chapter 1, Section 574.2 (c) and California Fire Code to a fire alarm control unit.*

**Revise Section 21.3.6 as follows:**

**21.3.6** Smoke detectors shall not be installed in unsprinklered elevator hoistways unless they are installed to activate the elevator hoistway smoke relief equipment *or where required by Chapter 30 of the California Building Code.*

**Revise Section 12.3.7 as follows:**

**12.3.7** (4) Where the vertically run conductors are contained in a 2-hour rated cable assembly, or enclosed (installed) in a 2-hour rated enclosure or a listed circuit integrity (C.I.) cable, which meets or exceeds a 2-hour fire resistive rating.

**Revise Section 23.8.5.1.2 as follows:**

**23.8.5.1.2** Where connected to a supervising station, fire alarm systems employing automatic fire detectors or waterflow detection devices shall include a manual fire alarm box to initiate a signal to the supervising station.

**Exception:** Fire alarm systems dedicated to elevator recall control, supervisory service and fire sprinkler monitoring *as permitted in section 21.3 of NFPA 72.*

**Revise Section 23.8.5.4.1 as follows:**

**23.8.5.4.1** Systems equipped with alarm verification features shall be permitted under the following conditions:

- (1) The alarm verification feature is not initially enabled unless conditions or occupant activities that are expected to cause nuisance alarms are anticipated in the area that is protected by the smoke detectors. Enabling of the alarm verification feature shall be protected by password or limited access.
- (2) A smoke detector that is continuously subjected to a smoke concentration above alarm threshold does not delay the system functions of Sections 10.7 through 10.16, 23.8.1.1, or 21.2.1 by more than 30 seconds.

(3) Actuation of an alarm initiating device other than a smoke detector

- (3) Actuation of an alarm-initiating device other than a smoke detector causes the system functions of Sections 10.7 through 10.16, 23.8.1.1, or 21.2.1 without additional delay.
- (4) The current status of the alarm verification feature is shown on the record of completion (see Figure 7.8.2(a), Item 4.3).
- (5) *Operation of a patient room smoke detector in I-2 and R-2.1 occupancies shall not include an alarm verification feature.*

**Revise Section 29.3.1 as follows:**

**29.3.1** All devices, combinations of devices, and equipment to be installed in conformity with this chapter shall be approved *and listed by the California State Fire Marshal* for the purposes for which they are intended.

**Revise Section 29.5.2.1.1 as follows:**

**29.5.2.1.1\* Smoke and Heat Alarms.** Unless exempted by applicable laws, codes, or standards, smoke or heat alarms used to provide a fire-warning function, and when two or more alarms are installed within a dwelling unit, suite of rooms, or similar area, shall be arranged so that the operation of any smoke or heat alarm causes all alarms within these locations to sound.

*Note: Exception to 29.5.2.1.1 not adopted by the SFM.*

**Add Section 29.7.2.1 as follows:**

**29.7.2.1** *The alarm verification feature shall not be used for household fire warning equipment.*

**Add Section 29.7.6.7.1 as follows:**

**29.7.6.7.1** *The alarm verification feature shall not be used for household fire warning equipment.*

**Revise Section 23.8.3.4 as follows:**

**29.8.3.4 Specific location requirements.** *The installation of smoke alarms and smoke detectors shall comply with the following requirements:*

- (1) *Smoke alarms and smoke detectors shall not be located where ambient conditions, including humidity and temperature, are outside the limits specified by the manufacturer's published instructions.*
- (2) *Smoke alarms and smoke detectors shall not be located within unfinished attics or garages or in other spaces where temperatures can fall below 40°F (4°C) or exceed 100°F (38°C).*
- (3) *Where the mounting surface could become considerably warmer or cooler than the room, such as a poorly insulated ceiling below an unfinished attic or an exterior wall, smoke alarms and smoke detectors shall be mounted on an insidewall.*
- (4) *Smoke alarms or smoke detectors shall be installed a minimum of 20 feet horizontal distance from a permanently installed cooking appliance.*

**Exceptions:** *Ionization smoke alarms with an alarm silencing switch or photoelectric smoke alarms shall be permitted to be installed 10 feet (3 m) or greater from a permanently installed cooking appliance.*

*Photoelectric smoke alarms shall be permitted to be installed greater than 6 feet (1.8 m) from a permanently installed cooking appliance where the kitchen or cooking area and adjacent spaces have no clear interior partitions and the 10 ft distances would prohibit the placement of a smoke alarm or smoke detector required by other sections of the code.*

*Smoke alarms listed for use in close proximity to a permanently installed cooking appliance.*

- (5) *Effective January 1, 2016, smoke alarms and smoke detectors used in household fire alarm systems installed between 6 ft (1.8 m) and 20 ft (6.1 m) along a horizontal flow path from a stationary or fixed cooking appliance shall be listed for resistance to common nuisance sources from cooking.*
- (6) *Installation near bathrooms. Smoke alarms shall be installed not less than a 3-foot (0.91 m) horizontal distance from the door or opening of a bathroom that contains a bathtub or shower unless this would prevent placement of a smoke alarm required by other sections of the code.*
- (7) *Smoke alarms and smoke detectors shall not be installed within a 36 in. (910 mm) horizontal path from the supply registers of a forced air heating or cooling system and shall be installed outside of the direct airflow from those registers.*
- (8) *Smoke alarms and smoke detectors shall not be installed within a 36 in. (910 mm) horizontal path from the tip of the blade of a ceiling-suspended (paddle) fan.*
- (9) *Where stairs lead to other occupied levels, a smoke alarm or smoke detector shall be located so that smoke rising in the stairway cannot be prevented from reaching the smoke alarm or smoke detector by an intervening door or obstruction.*
- (10) *For stairways leading up from a basement, smoke alarms or smoke detectors shall be located on the basement ceiling near the entry to the stairs.*
- (11) *For tray-shaped ceilings (coffered ceilings), smoke alarms and smoke detectors shall be installed on the highest portion of the ceiling or on the sloped portion of the ceiling within 12 in. (300 mm) vertically down from the highest point.*
- (12) *Smoke alarms and detectors installed in rooms with joists or beams shall comply with the requirements of 17.7.3.2.4 of NFPA 72.*
- (13) *Heat alarms and detectors installed in rooms with joists or beams shall comply with the requirements of 17.6.3 of NFPA 72.*

80—16

Standard for Fire Doors and Other Opening  
Protectives

410.2.5, 509.4.2, 716.1, 716.2.5.1, 716.2.6.4,  
716.2.9, 716.3.4.1, 716.3.5, 1010.1.4.3

82—14

Standard on Incinerators and Waste and  
Linen Handling Systems and Equipment

713.13

85—15

Boiler and Combustion System Hazards  
Code

426.1

92—15

Standard for Smoke Control Systems

909.7, 909.8

99—18

Health Care Facilities Code

101—18

Life Safety Code

1029.6.2

105—16

Standard for Smoke Door Assemblies and  
Other Opening Protectives

405.4.2, 710.5.2.2, 716.2.10, 909.20.4.1

110—16

Standard for Emergency and Standby Power  
Systems2702.1.3, *3111F*

111—13

Standard on Stored Electrical Energy  
Emergency and Standby Power Systems2702.1.3, *3111F*

120—15

Standard for Fire Prevention and Control in  
Coal Mines

426.1

130—14	Standard for Fixed Guideway Transit and Passenger Rail Systems	443
<p><b>*NFPA 130, Amended Sections as follows:</b></p> <p><b>Amend Section 2.2 and amend publications to read as follows:</b></p> <p><b>2.2 NFPA Publications.</b></p> <p>NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, <i>2013 California edition</i>.</p> <p><b>Amend Section 3.3.44.2 and amend publications to read as follows:</b></p> <p><b>3.3.44.2* Open Station.</b> A station that is constructed such that it is directly open to the atmosphere and smoke and heat are allowed to disperse directly into the atmosphere.</p> <p><i>The following enclosed areas in open stations are permitted:</i></p> <ol style="list-style-type: none"> <li><i>1. Ticket/pass booths not exceeding 150 square feet (13.9 m<sup>2</sup>) in area.</i></li> <li><i>2. Mechanical and electrical spaces typically not used for human occupancy and necessary for the operation of a fixed guideway transit system. Such spaces shall be limited to two per level.</i></li> <li><i>3. Restrooms not exceeding 150 square feet (13.9 m<sup>2</sup>) in area. A maximum of four restrooms are permitted per level.</i></li> </ol> <p><b>Add a new definition as 3.3.44.3 to read as follows:</b></p> <p><b>3.3.44.1.1 Underground Station.</b> A station or portion thereof that is located beneath the surface of the earth or of the water.</p> <p><b>Amend Section 5.2.2.1 to read as follows:</b></p>		

**5.2.2.1** Building construction for all new enclosed stations shall be not less than *Type IA, Type IB or Type IIA construction and shall not exceed in area or height the limits specified in the California Building Code Table 503*, for the station configuration or as determined by fire hazard analysis of potential fire exposure hazards to the structure.

**Add Section 5.2.2.1.1 —5.2.2.1.3 to read as follows:**

**5.2.2.1.1** *Underground stations shall be a minimum Type IA or Type IB constructions.*

**5.2.2.1.2** *Open stations may be of Type IIB construction and shall not exceed in area or height as required by Table 503 for Type IIA.*

**5.2.2.1.3** *Open at grade stations may be of any construction type allowed by the California Building Code.*

**Delete Section 5.2.2.2.**

**Amend Section 5.2.4.3 to read as follows:**

**5.2.4.3 Ancillary Spaces.** Fire resistance ratings of separations between ancillary occupancies shall be established as required by the *California Building Code*.

**Amend Section 5.2.4.3.1 to read as follows:**

**5.2.4.3.1** *The following areas shall be separated by a two-hour fire barrier:*

- 1. Electrical control rooms, auxiliary electrical rooms and associated battery rooms*
- 2. Trash rooms*
- 3. Train control rooms and associated battery rooms*
- 4. Fan rooms*
- 5. Emergency generator rooms*

**Amend Section 5.2.4.5 to read as follows:**

**5.2.4.5\* Separation Between System and Nonsystem Occupancies.** All station public areas shall be fire separated from adjacent nonsystem occupancies *by a one hour fire barrier, unless otherwise required by other provisions of the California Building Code.*

**Amend Section 5.3.1.1 to read as follows:**

**5.3.1.1** The provisions for means of egress for a station shall comply with Chapter 10 of the *California Building Code*, except as herein modified.

**Amend Section 5.3.2.1 to read as follows:**

**5.3.2.1\*** The occupant load for a station shall be based on the train load of trains simultaneously entering the station on all tracks in normal traffic direction plus the simultaneous entraining load awaiting trains.

- (1) The train load shall consider only one train at any one track.
- (2) The basis for calculating train and entraining loads shall be the peak period ridership figures as projected for design of a new system or as updated for an operating system.
- (3) *Exiting shall be provided for occupant loads recalculated upon increase in service and/ or every five years.*

**Amend Section 5.3.3.5 to read as follows:**

**5.3.3.5 Travel Distance.** The maximum travel distance on the platform to a point at which a means of egress route leaves the platform shall not exceed *91 440 mm (300 feet).*

**Amend Section 5.3.3.7 to read as follows:**

**5.3.3.7 Alternate Egress.** At least two means of egress remote from each other shall be provided from each station platform as follows:

- (1) \*A means of egress used as a public circulation route shall be permitted to provide more than 50 percent of the required egress capacity from a station platform or other location.
- (2) Means of egress from separate platforms shall be permitted to converge.
- (3) Where means of egress routes from separate platforms converge, the subsequent capacity of the egress route shall be sufficient to maintain the required evacuation time from the incident platform.
- (4) *Enclosed station platforms shall have a minimum of one exit within 2.5 times the least width of the enclosed station platform up to a maximum of 50 feet (insert mm) from each end.*
- (5) *Routes from platform ends into the underground guideway shall not be considered as exits for calculating exiting requirements.*

**Amend Section 5.3.11.1 to read as follows:**

**5.3.11.1** Illumination of the means of egress in stations, including escalators that are considered a means of egress, shall be in accordance with *Chapter 10* of the *California Building Code*.

**Amend Section 5.3.11.2 to read as follows:**

**5.3.11.2** Means of egress, including escalators considered as means of egress, shall be provided with a system of emergency lighting in accordance with *Chapter 10* of the *California Building Code*.

**Amend Section 5.4.1.1 to read as follows:**

**5.4.1.1** Enclosed stations shall be provided with a fire command center in accordance with *Section 911.1.1 through 911.5 of the California Building Code*.

**Amend Section 5.4.4.1 to read as follows:**

**5.4.4.1\*** An automatic sprinkler protection system shall be provided *where required by Section 903 of the California Building Code*.

**Delete Section 5.4.4.2.**

**Amend Section 5.4.5.1 to read as follows:**

**5.4.5.1\*** Class I standpipes shall be installed *where required by Chapter 9 of the California Building Code* in accordance with NFPA 14 except as modified herein.

**Amend Section 7.3.2.1 to read as follows:**

**7.3.2.1** The fan inlet airflow hot temperature shall be determined by an engineering analysis, however, this temperature shall not be less than 482°C (250°F). *Ventilation fans and related components shall be capable of withstanding the maximum anticipated plus/minus pressure transients induced by train operations.*

**Add Section 7.6.1.1 to read as follows:**

**7.6.1.1** *Ventilation of stations shall not terminate at grade on any vehicle roadway.*

**Amend Section 7.7.1 to read as follows:**

**7.7.1** Operation of the emergency ventilation system components shall be *capable of automatic and manual initiation in accordance with 909.12.3 of the California Building Code.*

**Amend Section 7.8.1 to read as follows:**

**Amend Section 706.1 to read as follows:**

**7.8.1** The design of the power for the emergencyventilation system shall comply with the requirements of Article 700 of *the California Electrical Code* and Section 909 of *the California Building Code*.

170—18

Standard for Fire Safety and Emergency  
Symbols

1025.2.6.1

211—16

Standard for Chimneys, Fireplaces, Vents  
and Solid Fuel-burning Appliances

2112.5

221—18

Standard for High Challenge Fire Walls, Fire  
Walls and Fire Barrier Walls

706.2

252—17

Standard Methods of Fire Tests of Door  
Assemblies

Table 716.1(1), 716.1.1, 716.1.2.2.1, 716.2.1.1,  
716.2.1.2, 716.2.2.1, 716.2.2.2, 716.2.3.1,  
716.2.5.1.1

253—15

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

406.2.4, 424.2, 804.2, 804.3

257—17

Standard for Fire Test for Window and Glass  
Block Assemblies

Table 716.1(1), 716.1.1, 716.1.2.2.2, T716.2.1.3,  
716.3.1.1, 716.3.1.2, 716.3.2.1.3, 716.3.4

259—18

Standard Test Method for Potential Heat of  
Building Materials

2603.4.1.10, 2603.5.3

265—15

Standard Methods of Fire Tests for  
Evaluating Room Fire Growth Contribution of  
Textile Wall Coverings on Full Height Panels  
and Walls

803.5.1, 803.5.1.1

268—17

Standard Test Method for Determining  
Ignitability of Exterior Wall Assemblies Using  
a Radiant Heat Energy Source



1405.1.1.1, 1405.1.1.1.1, 1405.1.1.1.2, 2603.5.7

275—17

Standard Method of Fire Tests for the  
Evaluation of Thermal Barriers

1406.10.2, 1408.10.2, 2603.4

276—15

Standard Method of Fire Tests for  
Determining the Heat Release Rate of  
Roofing Assemblies with Combustible  
Above-deck Roofing Components

1508.1, 2603.3, 2603.4.1.5

285—17

Standard Fire Test Method for the Evaluation  
of Fire Propagation Characteristics of  
Exterior Nonload-bearing Wall Assemblies  
Containing Combustible Components

718.2.6, 1402.5, 1406.10.4, 1408.10.4, 1510.6.2,  
2603.5.5

286—15

Standard Methods of Fire Test for Evaluating  
Contribution of Wall and Ceiling Interior  
Finish to Room Fire Growth

402.6.4.4, 803.1.1, 803.1.1.1, 803.11, 803.12,  
803.13, 1406.10.3, 2603.7, 2603.9, 2604.2.4,  
2614.4, 3105.3

288—17

Standard Methods of Fire Tests of Horizontal  
Fire Door Assemblies Installed in Horizontal  
in Fire-resistance-rated Floor Systems

712.1.13.1

289—18

Standard Method of Fire Test for Individual  
Fuel Packages

402.6.2, 402.6.4.5, 424.2, 806.4

409—16

Standard for Aircraft Hangars

412.3.6, Table 412.3.6, 412.3.6.1, 412.5.5

418—16

Standard for Heliports

412.7.4

484—18

Standard for Combustible Metals

426.1

502—14

652—16

Standard on the Fundamentals of  
Combustible Dust

426.1

654—17

Standard for the Prevention of Fire and Dust  
Explosions from the Manufacturing,  
Processing and Handling of Combustible  
Particulate Solids

426.1

655—17

Standard for the Prevention of Sulfur Fires  
and Explosions

426.1

664—17

Standard for the Prevention of Fires and  
Explosions in Wood Processing and  
Woodworking Facilities

426.1

701—15

Standard Methods of Fire Tests for Flame  
Propagation of Textiles and Films

410.2.6, 424.2, 806.4, 3102.3, 3102.3.1,  
3102.6.1.1, 3105.3

704—17

Standard System for the Identification of the  
Hazards of Materials for Emergency  
Response

202, 415.5.2

720—15

Standard for the Installation of Carbon  
Monoxide (CO) Detection and Warning  
Equipment

915.4.1, 915.6, 915.7

750—15

Standard on Water Mist Fire Protection  
Systems

202, 904.11.1.1, 904.12

1124—17

Code for the Manufacture, Transportation  
and Storage *and Retail Sales* of Fireworks  
and Pyrotechnic Articles

2001—15	Standard on Clean Agent Fire Extinguishing Systems, <i>as amended*</i>	904.10
	<p><b><i>*NFPA 2001, Amended Sections as follows:</i></b></p> <p><b><i>Add Sections 4.3.5.1.1 and 4.3.5.2.1 to read as follows:</i></b></p> <p><b><i>4.3.5.1.1 Alarms signals from the fire extinguishing system shall not interfere with the building fire alarm signal.</i></b></p> <p><b><i>4.3.5.2.1 The lens on visual appliances shall be "red" in color.</i></b></p> <p><b><i>Exception: Other lens colors are permitted where approved by the enforcing agency.</i></b></p>	

2010—15
Standard for Fixed Aerosol Fire-extinguishing Systems
904.14

PCI	MNL 124 —11	Precast Prestressed Concrete Institut 200 West Adams Street, Suite 2100 Chicago, IL 60606-6938
	Design for Fire	
	Resistance of Precast Prestressed Concrete	
722.2.3.1		

MNL 128—01
Recommended Practice for Glass Fiber Reinforced Concrete Panels
1903.3

<i>MNL 120—17</i>
<i>PCI Design Handbook 8th Edition</i>
<i>1905A.1.1, 1905A.1.2</i>

PTI	PTI	Post-Tensioning Institute 38800 Country Club Drive Farmington Hills, MI 4833
	DC35.1—	
	14	
<i>Recommendations for Prestressed Rock and Soil Anchors</i>		
<i>1810A.3.10.4, 1811A.2, 1812A.4, 1812A.5, 1810.3.10.4.1, 1811.2, 1812.4, 1812.5,1813.2</i>		

PTI DC—10.5-12
Standard Requirements for Design and Analysis of Shallow Concrete Foundations on Expansive Soils
1808.6.2

RMI	ANSI/MH16.1—12	Rack Manufacturers Institute 8720 Red Oak Boulevard, Suite 20 Charlotte, NC 28217

Specification for Design, Testing and Utilization of Industrial Steel Storage Racks
2209.1

ANSI/MH16.3—16
Specification for the Design, Testing and Utilization of Industrial Steel Cantilevered Storage Racks
2209.2

<div>SBCA</div> <div>ANSI/FS 100-12</div> <div> Standard Requirements for Wind Pressure Resistance of Foam Plastic Insulating Sheathing Used in Exterior Wall Covering Assemblies </div> <div>2603.10</div>	<div>Structural Building Components Associatio</div> <div>6300 Enterprise Lane</div> <div>Madison, WI 53719</div>
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<div>SDI</div> <div>SDI NC —2017</div> <div>Standard for</div> <div>Noncomposite Steel Floor Deck</div> <div>2210.1.1.1</div>	<div>Steel Deck Institute</div> <div>2661 Clearview Road #</div> <div>Allison Park, PA 15101</div>
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SDI RD—2017
Standard for Steel Roof Deck
2210.1.1.2

SDI-C—2017
Standard for Composite Steel Floor Deck— Slabs
2210.1.1.3

SDI-QA/QC—2017
Standard for Quality Control and Quality Assurance for Installation of Steel Deck
1705.2.2

<div>12-3</div> <div>SFM</div> <div>Releasing Systems for Security Bars in Dwellings</div> <div>1029.4</div>	<div>State of California</div> <div>Department of Forestry and Fire Protectio</div> <div>Office of the State Fire Marshal</div> <div>P.O. Box 944246</div> <div>Sacramento, CA 94246-2460</div>
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<div>12-7-3</div> <div>Fire-testing Furnaces</div> <div>NA</div>
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12-7A-1
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Exterior Wall Siding and Sheathing

703A.7, 707A.2

12-7A-2

Exterior Window

703A.7, 708A.2.1

12-7A-3

Under Eave

703A.7, 707A.8

12-7A-4

Decking

703A.7, 709A.3

12-7A-4A

Decking Alternate Method A

703A.7, 709A.3

12-7A-5

Ignition Resistant Building Material

703A.7, 709A.3

12-8-100

Room Fire Tests for Wall and Ceiling  
Materials

NA

12-10-1

Power Operated Exit Doors

NA

12-10-2

Single Point Latching or Locking Devices

NA

12-10-3

Emergency Exit and Panic Hardware

NA

(The Office of the State Fire Marshal standards referred to above are found in the California Code of Regulations, Title 24, Part 12.)

SJI  
Load Tables and Weight Tables for Steel  
Joists and Joist Girders K-Series, LH-Series,  
DHL-Series, Joist Girders

SJI 100—15

44th Edition  
Standard  
Specification

Steel Joist Institute  
234 W. Cheves Street  
Florence, SC 29501

1604.3.3, 2203.2, 2207.1

SJI 200—15

Standard Specification for Composite Steel  
Joists, CJ-Series

1604.3.3, 2203.2, 2207.1

# SPRI

Single-Ply Roofing Institute  
465 Waverly Oaks Road, Suite 42  
Waltham, MA 02452

ANSI/SPRI/FM 4435-ES-1—11

Wind Test Design Standard for Edge  
Systems Used with Low Slope Roofing  
Systems

1504.5

ANSI/SPRI RP-4—13

Wind Design Guide for Ballasted Single-ply  
Roofing Systems

1504.4

ANSI/SPRI VF1—10

External Fire Design Standard for Vegetative  
Roofs

1505.10

# SRCC

Solar Rating & Certification Corporatio  
3060 Saturn Street, Suite 100  
Brea, CA 92821

ICC 900/SRCC 300—2015

Solar Thermal System Standard

3111.2.1

ICC 901/SRCC 100—2015

Solar Thermal Collector Standard

3111.2.1

# TIA

222-H—  
2016

Structural  
Standards

for Antenna Supporting Structures and  
Antennas

1609.1.1, 3108.1, 3108.2

Telecommunications Industry Associatio  
1320 N. Courthouse Road #200  
Arlington, VA 22201-3834

# TMS

216  
—  
2013

Standard Method for Determining Fire  
Resistance of Concrete and Masonry  
Construction Assemblies

Table 721.1(2), 722.1

The Masonry Society  
105 South Sunset Street, Suite 100  
Longmont CO80501

302—2012
Standard Method for Determining the Sound Transmission Class Rating for Masonry Walls
1207.2.1

402—2016
Building Code for Masonry Structures
1404.6, 1404.6.2, 1404.10, 1604.3.4, 1705.4, 1705.4.1, 1807.1.6.3.2, 1808.9, 2101.2, 2106.1, 2107.1, 2107.2, 2107.3, 2108.1, 2108.2, 2108.3, 2109.1, 2109.1.1, 2109.2, 2110.1, 2114.1, 2114.4, <i>1411.2.1, 2106A.1.1, 2107A.5, 2107A.6, 2115.7, 2115.8, 2107.4, 2107.5, 2107.6, 2105A.3, 2106A.1.1, 2115.9, 2115.10</i>

403—2017
Direct Design Handbook for Masonry Structures
2101.2

404—2016
Standard for the Design of Architectural Cast Stone
2102.2

504—2016
Standard for the Fabrication of Architectural Cast Stone
2103.1

602—2016
Specification for Masonry Structures
1404.6.1, 1705.4, <i>1705A.4</i> , 1807.1.6.3, 2103.1, 2103.2.1, 2103.3, <i>2103A.3.1</i> , 2103.4, 2104.1, <i>2104A.1.3.1.1, 2105A.1.3.1.2, 2104A.1.3.1.1, 2104A.1.3.1.2.1</i> , 2105.1, <i>2105.3, 2105A.3, 2105.5, 2105A.5, 2105A.6, 2105.6, 2106.6</i>

604—2016
Standard for the Installation of Architectural Cast Stone
2104.1

<div>TPI</div> <div>Standard for Metal-plate-connected Wood Truss Construction</div>	TPI 1— 2014	<div>Truss Plate Institute 218 N. Lee Street, Suite 31 Alexandria, VA 22314</div>
	National Design	
	2303.4.6, 2306.1	

<div> <div>UBC</div> <div>Standard 15-2</div> </div>	<div> <div>UBC</div> <div>International Code Council, Inc. 500 New Jersey Avenue, NW 6th Floor Washington, DC 20001</div> </div>
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*Test Standard for Determining the Fire Retardancy of Roof-Covering Materials*

1505.6

*UBC Standard 15-3*


*Wood Shakes*

1505.6

*UBC Standard 15-4*

*Wood Shingles*

1505.6



9—2009

Fire Tests of Window Assemblies—

with Revisions through February 2015

Table 716.1(1), 716.1.1, 716.1.2.2.2, 716.2.1.3, 716.3.1.1, 716.3.1.2, 716.3.2.1.3, 716.3.4, 1013.5

UL LLC  
333 Pfingsten Road  
Northbrook IL60062-209

10A—2009

Tin Clad Fire Doors—with Revisions through December 2013

716.2.1

10B—2008

Fire Tests of Door Assemblies—with Revisions through February 2015

Table 716.1(1), 716.1.1, 716.1.2.2.1, 716.2.1.2, 716.2.2.2, 716.2.2.3.1, 716.2.5.1.1

10C—2009

Positive Pressure Fire Tests of Door Assemblies—with Revisions through February 2015

Table 716.1(1), 716.1.1, 716.1.2.2.1, 716.2.1.1, 716.2.2.1, 716.2.2.2, 716.2.2.3.1, 716.2.5.1.1, 1010.1.10.1

*13—96*

*Power-limited Circuit Cables*

14B—2008

Sliding Hardware for Standard Horizontally Mounted Tin Clad Fire Doors—with Revisions through May 2013

716.2.1

14C—06

Swinging Hardware for Standard Tin Clad Fire Doors Mounted Singly and in Pairs—with Revisions through May 2013

716.2.1



38—99	<i>Manually Actuated Signaling Boxes—with Revisions through February 2, 2005, as amended.*</i>	
	<p><b>*Amend Section 14.1.5 as follows:</b></p> <p><b>14.1.5</b> A signaling box having a glass panel, disc, rod or similar part that must be broken to operate it for a signal or for access to its actuating means shall satisfactorily complete five part-breaking operations using the means provided with the box, without jamming of the mechanism or other interference by broken particles. It shall be practicable to remove and replace the broken parts. A signaling box shall not have a glass panel, disc, rod or similar part requiring a striking action by grasping a tool to operate it for a signal. The force required to activate controls shall be no greater than 5 pounds (22 N) of force.</p> <p><b>*Add Appendix B chapter to UL 38 (1999) as follows:</b></p> <p><b>Appendix B,</b></p> <p><b>14.1.5 Operation.</b> Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist.</p>	

55A—04

Materials for Built-up Roof Coverings

1507.10.2

103—2010

Factory-built Chimneys, for Residential Type and Building Heating Appliances—with Revisions through July 2012

718.2.5.1

127—2011

Factory-built Fireplaces—with Revisions through May 2015

718.2.5.1, 2111.12

193—04

Alarm Valves for Fire-Protection Service

199—95

Automatic Sprinklers for Fire Protection Service—with Revisions through August 19, 2005

199E—04

Outline of Investigation for Fire Testing of Sprinklers and Water Spray Nozzles for Protection of Deep Fat Fryers

904.12.4.1

217—06

Single and Multiple Station Smoke Alarms—with Revisions through October 2015

907.2.10

228—97

*Door Closers/holders, with or without  
Integral Smoke Detectors—with Revisions  
through January 26, 2006*

*260—04*

*Dry Pipe and Deluge Valves for Fire  
Protection Service*

*262—04*

*Gate Valves for Fire Protection Service*

263—11

Fire Tests of Building Construction and  
Materials—with Revisions through June 2015

703.2, 703.2.1, 703.2.3, 703.2.5, 703.3, 703.4,  
703.6, 704.12, 705.7, 705.8.5, 707.6, 712.1.13.2,  
714.4.1, 714.5.1, 715.1, Table 716.1(1), Table  
716.1(3), 716.1.2.3, 716.2.5.1.1, 716.2.5.4,  
716.3.2.1.1, 717.3.1, 717.5.2, 717.5.3, 717.6.1,  
717.6.2, Table 721.1(1), 2103.1, 2603.5.1

268—09

Smoke Detectors for Fire Alarm Systems

407.9, 907.2.6.2, 907.2.10.7

*268A—09*

*Smoke Detectors for Duct Application—with  
Revisions through October 22, 2003*

294—1999

Access Control System Units—with Revisions  
through February 2015

1010.1.9.7, 1010.1.9.8.1, 1010.1.9.9, 1010.1.9.10

300—05(R2010)

Fire Testing of Fire Extinguishing Systems  
for Protection of Commercial Cooking  
Equipment—with Revisions through  
December 2014

904.12

300A—06

Outline of Investigation for Extinguishing  
System Units for Residential Range Top  
Cooking Surfaces

904.13.1.1

305—2012

Panic Hardware—with Revisions through  
August 2014

1010.1.10.1

*312—04*

*Check Valves for Fire-Protection Service*

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325—02

Door, Drapery, Gate, Louver and Window  
Operations and Systems—with Revisions  
through May 2015

406.2.1, 3110.3

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*346—05*

*Waterflow Indicators for Fire Protective  
Signaling Systems*

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*464—03*

*Audible Signal Appliances—with Revisions  
through October 10, 2003*

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*497B—04*

*Protectors for Data Communication and Fire  
Alarm Circuits*

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521—99

*Heat Detectors for Fire Protective Signaling  
Systems—with Revisions through July 20,  
2005*

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*539—00*

*Single- and Multiple-Station Heat  
Detectors—with Revisions through August  
15, 2005*

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555—2006

Fire Dampers—with Revisions through May  
2014

717.3.1

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555C—2006

Ceiling Dampers—with Revisions through  
December 2014

717.3.1

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555S—99

Smoke Dampers—with Revisions through  
February 2014

717.3.1

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580—2006

Test for Uplift Resistance of Roof  
Assemblies—with Revisions through October  
2013

1504.3.1, 1504.3.2

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*632—00*

*Electrically Actuated Transmitters*

641—2010

Type L Low-temperature Venting Systems—  
with Revisions through June 2013

2113.11.1.4

710B—2011

Recirculating Systems—with Revisions  
through August 2014

904.12

723—2008

Test for Surface Burning Characteristics of  
Building Materials—with Revisions through  
August 2013

202, 402.6.4.4, 406.7.2, 703.5.2, 720.1, 720.4,  
803.1.2, 803.5.2, 803.10, 803.11, 803.12, 803.13,  
806.7, 1402.5, 1403.12.1, 1406.9, 1406.10.1,  
1408.9, 1408.10.1, 1510.6.2, 1510.6.3, 2303.2,  
2603.3, 2603.4.1.13, 2603.5.4, 2603.5.5, 2603.7,  
2604.2.4, 2606.4, 2612.3, 2614.3, 3105.3

*753—04*

*Alarm Accessories for Automatic Water  
Supply Valves for Fire Protection Service*

790—04

Standard Test Methods for Fire Tests of Roof  
Coverings—with Revisions through July 2014

1505.1, 2603.6, 2610.2, 2610.3

793—08

Automatically Operated Roof Vents for  
Smoke and Heat—with Revisions through  
September 2011

910.3.1

*813—96*

*Commercial Audio Equipment—with  
Revisions through December 7, 1999*

*857—13*

*Busways*

*1705A.13.3.1*

864—03	Control Units and Accessories for Fire Alarm Systems, <i>as amended</i> *—with Revisions through December 2014	909.12
	<p><b><i>*Amend No. 55.1 as follows:</i></b></p> <p><b><i>RETARD-RESET-RESTART PERIOD — MAXIMUM 30 SECONDS</i></b> —<i>No alarm obtained from control unit. Maximum permissible time is 30 seconds.</i></p> <p><b><i>*Amend Section 55.2.2 as follows:</i></b></p> <p><i>Where an alarm verification feature is provided, the maximum retard-reset-restart period before an alarm signal can be confirmed and indicated at the control unit, including any control unit reset time and the power-up time for the detector to become operational for alarm, shall not exceed 30 seconds. (The balance of the section text is to remain unchanged).</i></p> <p><b><i>*Add Section 55.2.9 as follows:</i></b></p> <p><i>Smoke detectors connected to an alarm verification feature shall not be used as releasing devices.</i></p> <p><b><i>Exception:</i></b> <i>Smoke detectors which operate their releasing function immediately upon alarm actuation independent of alarm verification feature.</i></p> <p><b><i>*Amend Section 89.1.10 as follows:</i></b></p> <p><i>The existing text of this section is to remain as printed with one editorial amendment as follows:</i></p> <p><b><i>THE TOTAL DELAY (CONTROL UNIT PLUS SMOKE DETECTORS) SHALL NOT EXCEED 30 SECONDS.</i></b></p> <p><i>(The balance of the section text is to remain unchanged).</i></p>	

924—06

Safety Emergency Lighting and Power  
Equipment—with Revisions through April  
2014

1013.5

1040—96

Fire Test of Insulated Wall Construction—  
with Revisions through October 2012

1406.10.3, 1408.10.3, 2603.9

1256—02

Fire Test of Roof Deck Construction—with  
Revisions through July 2013

1508.1, 2603.3, 2603.4.1.5

1479—03

Fire Tests of Penetration Firestops—with  
Revisions through June 2015

202, 714.4.1.2, 714.4.2, 714.5.1.2, 714.5.4

1482—2011

Solid-fuel Type Room Heaters—with  
Revisions through August 2015

2112.2, 2112.5

1703—02

Flat-plate Photovoltaic Modules and Panels—  
with Revisions through October 2015

1505.9, 1507.17.6, 1507.18.5, 1510.7.2, 3111.3.1

1715—97

Fire Test of Interior Finish Material—with  
Revisions through January 2013

1406.10.3, 1408.10.3, 2603.9, 2614.4

1741—2010

Inverters, Converters, Controllers and  
Interconnection System Equipment for Use  
with Distributed Energy Resources—with  
Revisions through January 2015

3111.3.1

1777—2007

Chimney Liners—with Revisions through  
October 2015

2113.11.1, 2113.19

1784—01

Air Leakage Tests of Door Assemblies—with  
Revisions through February 2015

405.4.3, 710.5.2.2, 710.5.2.2.1, 716.2.1.4,  
716.2.9.1, 716.2.9.3, 3006.3, 3007.6.3, 3008.6.3

1897—12

Uplift Tests for Roof Covering Systems—with  
Revisions through September 2015

1504.3.1, 1504.3.3, 1507.18.7

1975—06

Fire Tests for Foamed Plastics Used for  
Decorative Purposes

402.6.2, 402.6.4.5, 424.2

1994—04

Luminous Egress Path Marking Systems—  
with Revisions through May 2015

411.6, 1008.2.1, 1025.2.1, 1025.2.3, 1025.2.4,  
1025.2.5, 1025.4

2034—2017

Single and Multiple station Carbon Monoxide  
Alarms

915.4.2, 915.4.4

2075—2013

Standard for Gas and Vapor Detectors and  
Sensors

915.5.1, 915.5.3

2079—04
Tests for Fire Resistance of Building Joint Systems—with Revisions through August 2015
202, 715.3, 715.6

2196—2001
Tests for Fire Resistive Cables—with Revisions through March 2012
909.20.6.1, 913.2.2, 2702.3, 3007.8.1, 3008.8.2

2200—2012
Stationary Engine Generator Assemblies—with Revisions through July 2015
2702.1.1

2202—2009
Electric Vehicle (EV) Charging System Equipment
406.2.7

2594—2013
Electric Vehicle Supply Equipment
406.2.7

2703—2014
Outline of Investigation for Mounting Systems, Mounting Devices, Clamping/Retention Devices and Ground Lugs for Use with Flat-plate Photovoltaic Modules and Panels
1505.9

ULC	Underwriters Laboratories of Canada 13775 Commerce Parkway Richmond, BC V6V 2V4
CAN/ULC S 102.2—2010	
Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings and Miscellaneous Materials and Assemblies—with 2000 Revisions	
720.2, 720.3, 720.4	

USC	18 USC Part 1,	United States Code c/o Superintendent of Document U.S. Government Printing Office 732 North Capitol Street NW Washington, DC 20401
Ch.40		
Importation, Manufacture, Distribution and Storage of Explosive Materials		
202		

AITC 104—03
Typical Construction Details

# WCLIB

West Coast Lumber Inspection Bureau  
P.O. Box 23145  
Portland, OR 97281

2306.1

AITC 110—01

Standard Appearance Grades for Structural  
Glued Laminated Timber

2306.1

*AITC 111—05*

*Recommended Practice for Protection of  
Structural Glued Laminated Timber During  
Transit, Storage and Erection*

*2303.1.3.1*

AITC 113—10

Standard for Dimensions of Structural Glued  
Laminated Timber

2306.1

AITC 119—96

Standard Specifications for Structural Glued  
Laminated Timber of Hardwood Species

2306.1

AITC 200—09

Manufacturing Quality Control Systems  
Manual for Structural Glued Laminated  
Timber

2306.1

*AITC 404—05*

*Standard for Radially Reinforcing Curved  
Glued Laminated Timber Members to Resist  
Radial Tension*

*2303.1.3.1*

# WDMA

Window and Door Manufacturers Associatio  
2025 M Street NW, Suite 800  
Washington, DC 20036-3309

AAMA/WDMA/CSA 101/I.S.2/A440—17

Specifications for Windows, Doors and Unit  
Skylights

1709.5.1, 2405.5

# WRI

Wire Reinforcement Institute, Inc  
942 Main Street, Suite 300  
Hartford, CT 06103

WRI/CRSI—81

Design of Slab-on-ground Foundations—with  
1996 Update



