

**Part IX—Referenced Standards**

**CHAPTER 100  
REFERENCED STANDARDS**

This chapter lists the standards that are referenced in various sections of this document. The standards are listed herein by the promulgating agency of the standard, the standard identification, the effective date and title, and the section or sections of this document that reference the standard. The application of the referenced standard shall be as specified in Section 5102.4.

**AAMA**

American Architectural Manufacturers Association  
1827 Walden Office Square, Suite 550  
Schaumburg, IL 60173

Standard reference number	Title	Referenced in code section number
101/I.S2—97	Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors . . . . .	5613.3, 6101.3.2.2,
101/I.S2/NAFS—02	Voluntary Performance Specification for Windows, Skylights and Glass Doors . . . . .	5308.6.9, 5613.3, 6101.3.2.

**ACI**

American Concrete Institute  
38800 Country Club Drive  
Farmington Hills, MI 48333

Standard reference number	Title	Referenced in code section number
318—02	Building Code Requirements for Structural Concrete. . . . .	5402.2, 5404.1, 5404.4, 5404.4.6.1, Table 5404.4(1), Table 5404.4(2), Table 5404.4(3), Table 5404.4(4), Table 5404.4(5), 5611.1, Table 5611.3(1), Table 5611.7(1), Table 5611.7(2), Table 5611.7(3), Table 5611.7(4), Table 5611.7(5), Table 5611.7(6), Table 5611.7(7), Table 5611.7(9), Table 5611.7(10), 5611.7.1.1, Table 5611.7.4, 5612.1
530—02	Building Code Requirements for Masonry Structures . . . . .	5404.1, 5606.1, 5606.1.1, 5606.11.1, 5606.11.2.2.1, 5606.11.2.2.2, 5606.11.3.1
530.1—02	Specifications for Masonry Structures . . . . .	5404.1, 5606.1, 5606.1.1, 5606.11.1, 5606.11.2.2.1, 5606.11.2.2.2, 5606.11.3.1

**ACCA**

Air Conditioning Contractors of America  
2800 Shirlington Road, Suite 300  
Arlington, VA 22206

Standard reference number	Title	Referenced in code section number
Manual D—95	Residential Duct Systems. . . . .	.6601.1, 6602.2
Manual J—87	Residential Load Calculation—Seventh Edition . . . . .	.6401.3

**AFPA**

American Forest and Paper Association  
111 19th Street, NW, Suite 800  
Washington, DC 20036

Standard reference number	Title	Referenced in code section number
NDS—01	National Design Specification (NDS) for Wood Construction—with 2001 Supplement . . . . .	5404.2.2, 5502.2, Table 5503.1, 5602.3, 5802.2
WFCM—2001	Wood Frame Construction Manual for One- and Two-family Dwellings . . . . .	5301.2.1.1
AFPA—93	Span Tables for Joists and Rafters. . . . .	5502.3, 5802.4, 5802.5
T.R. No. 7—87	Basic Requirements for Permanent Wood Foundation System . . . . .	5401.1

**REFERENCED STANDARDS**

**AHA**

American Hardboard Association  
1210 West Northwest Highway  
Palatine, IL 60067

Standard reference number	Title	Referenced in code section number
A135.4—95	Basic Hardboard	Table 5602.3(1)
A135.5—95	Prefinished Hardboard Paneling	5702.5
A135.6—98	Hardboard Siding	Table 5703.4
A194.1—85	Cellulosic Fiber Board	Table 5602.3(1)

**AISI**

American Iron and Steel Institute  
1140 Connecticut Ave, Suite 705  
Washington, DC 20036

Standard reference number	Title	Referenced in code section number
Header—2001	Standard for Cold-formed Steel Framing-Header Design, 2001	5603.6
PM—2001	Standard for Cold-formed Steel Framing-Prescriptive Method for One- and Two-family Dwellings	5301.1.1, 5301.2.1.1(4), 5301.2.2.4.1, 5301.2.2.4.5
Truss—2001	Standard for Cold-formed Steel Framing-Truss Design	5804.1.3

**AITC**

American Institute of Timber Construction  
7012 S. Revere Parkway, Suite 140  
Englewood, CO 80112

Standard reference number	Title	Referenced in code section number
AITC A 190.1—92	Structural Glued Laminated Timber	5502.1.5, 5602.1.2, 5802.1.4

**ANSI**

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

Standard reference number	Title	Referenced in code section number
A108.1A—99	Installation of Ceramic Tile in the Wet-set Method, with Portland Cement Mortar	5702.4.1
A108.1B—99	Installation of Ceramic Tile, Quarry Tile on a Cured Portland Cement Mortar Setting Bed with Dry-set or Latex-Portland Mortar	5702.4.1
A108.4—99	Installation of Ceramic Tile with Organic Adhesives or Water Cleanable Tile-setting Epoxy Adhesive	5702.4.1
A108.5—99	Installation of Ceramic Tile with Dry-set Portland Cement Mortar or Latex-Portland Cement Mortar	5702.4.1
A108.6—99	Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-setting and -grouting Epoxy	5702.4.1
A108.11—99	Interior Installation of Cementitious Backer Units	5702.4.1
A118.1—99	American National Standard Specifications for Dry-set Portland Cement Mortar	5702.4.1
A118.3—99	American National Standard Specifications for Chemical Resistant, Water Cleanable Tile-setting and Grouting Epoxy and Water Cleanable Tile-setting Epoxy Adhesive	5702.4.1
A136.1—99	American National Standard Specifications for Organic Adhesives for Installation of Ceramic Tile	5702.4.1
A137.1—88	American National Standard Specifications for Ceramic Tile	5702.4.1
A208.1—99	Particleboard	5503.3.1, 5605.1
Z21.48—92	Gas-fired Gravity and Fan-type Floor Furnace—with Addendum A-1993 (Replaced by Z21.86—98/CSA 2.32—M98, Vented Gas-fired Space-heating Appliances)	G2437.1
Z21.49—92	Gas-fired Gravity and Fan-type Vented Wall Furnaces—with Addendum B-1994 (Replaced by Z21.86—98/CSA 2.32—M98, Vented Gas-fired Space-heating Appliances)	G2436.1
Z21.50—2000	Vented Gas Fireplaces—with Addendum A-1999 and Addendum B-1999	G2434.1

# APA

APA-The Engineered Wood Association  
P. O. Box 11700  
Tacoma, WA 98411-0700

Standard reference number	Title	Referenced in code section number
APA E30-01	Engineered Wood Construction Guide	5803.2.3

# ASCE

American Society of Civil Engineers  
1801 Alexander Bell Drive  
Reston, VA 20191

Standard reference number	Title	Referenced in code section number
5-02	Building Code Requirements for Masonry Structures	5404.1, 5606.1, 5606.1.1, 5606.11.1, 5606.11.2.2.1, 5606.11.2.2.2, 5606.11.3.1
6-02	Specifications for Masonry Structures	5404.1, 5606.1, 5606.1.1, 5606.11.1, 5606.11.2.2.1, 5606.11.2.2.2, 5606.11.3.1
7-02	Minimum Design Loads for Buildings and Other Structures	5301.2.1.1
32-01	Design and Construction of Frost Protected Shallow Foundations	5403.1.4.1

# ASHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.  
1791 Tullie Circle, NE  
Atlanta, GA 30329

Standard reference number	Title	Referenced in code section number
34-2001 ASHRAE-2001	Designation and Safety Classification of Refrigerants	6411.1

# ASTM

ASTM International  
100 Barr Harbor Drive  
West Conshohocken, PA 19428

Standard reference number	Title	Referenced in code section number
A 36/A 36M-01	Specification for Carbon Structural Steel	5606.14
A 53/A53M-01	Specification for Pipe, Steel, Black and Hot-dipped, Zinc-coated Welded and Seamless	Table 7101.1
A 106-99e	Specification for Seamless Carbon Steel Pipe for High Temperature Service	Table 7101.1
A 153-01a	Specification for Zinc Coating (Hot Dip) on Iron and Steel Hardware	Table 5606.14.1
A 167-99	Specification for Stainless and Heat-resisting Chromium-nickel Steel Plate, Sheet, and Strip	5606.14, Table 5606.14.1
A 254-97	Specification for Copper Brazed Steel Tubing	Table 7101.1
A 510M-00	Specification for General Requirements for Wire Rods and Coarse Round Wire, Carbon Steel Metric	5606.14
A 525-87	Specification for Steel Sheet Zinc-coated (Galvanized) Steel Wire	Table 5606.14.1, 7601.1.1
A 539-99	Specification for Electronic-resistance-welded Coiled Steel Tubing for Gas and Fuel Oil Lines	7202.1
A 615/A 0615M-01b	Specification for Deformed and Plain Billet-steel Bars for Concrete Reinforcement	5404.4.6.1, 5611.6.2
A 641/A 0641M-98	Specification for Zinc-coated (Galvanized) Carbon Steel Wire	Table 5606.14.1
A 653/A 0653M-00	Specification for Steel Sheet, Zinc-coated (Galvanized) or Zinc-iron Alloy-coated (Galvanized) by the Hot-dip Process	5505.2.1, 5505.2.3, 5603.2.1, 5603.2.3, 5804.2.1, 5804.2.3, Table 5905.10.3
A 706M-00	Specification for Low-alloy Steel Deformed and Plain Bars for Concrete Reinforcement	5404.4.6.1, 5611.6.2
A 755M-99	Specification for Steel Sheet, Metallic Coated by the Hot-dip Process and Prepainted by the Coil-coating Process for Exterior Exposed Building Products	Table 5905.10.3
A 792M-99	Specification for Steel Sheet, 55% Aluminum-zinc Alloy-coated by the Hot-dip Process	5505.2.1, 5603.2.1, 5603.2.3, 5804.2.1, 5804.2.3
A 875/0875M-01a	Specification for Steel Sheet, Zinc-5%, Aluminum Alloy-coated by the Hot-dip Process	5505.2.1, 5505.2.3, 5603.2.1, 5603.2.3, 5804.2.1, 5804.2.3
A 951-00	Specification for Masonry Joint Reinforcement	5606.14
A 996/A 996M-00	Specifications for Rail-steel and Axel-steel Deformed Bars Reinforcement for Concrete	5404.4.6.1, 5611.6.2

**REFERENCED STANDARDS**

**ASTM—continued**

B 42—98	Specification for Seamless Copper Pipe, Standard Sizes . . . . .	Table 7101.1
B 43—98	Specification for Seamless Red Brass Pipe, Standard Sizes . . . . .	Table 7101.1
B 75—99	Specification for Seamless Copper Tube . . . . .	Table 7101.1
B 88—99e1	Specification for Seamless Copper Water Tube . . . . .	Table 7101.1
B 101—96	Specification for Lead-coated Copper Sheet and Strip for Building Construction . . . . .	Table 5905.10.3
B 135—00	Specification for Seamless Brass Tube (Metric) . . . . .	Table 7101.1
B 209—96	Specification for Aluminum and Aluminum-alloy Sheet and Plate . . . . .	Table 5905.10.3
B 227—98	Specification for Hard-drawn Copper-clad Steel Wire . . . . .	5606.14
B 251—97	Specification for General Requirements for Wrought Seamless Copper and Copper-alloy Tube . . . . .	Table 7101.1
B 280—99	Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service . . . . .	7414.5.2
B 302—00	Specification for Threadless Copper Pipe, Standard Sizes . . . . .	Table 7101.1
B 306—99	Specification for Copper Drainage Tube (DWV) . . . . .	Table 7101.1
B 370—98	Specification for Copper Sheet and Strip for Building Construction . . . . .	Table 5905.10.3
B 633—98e01	Specification for Electrodeposited Coatings of Zinc on Iron and Steel . . . . .	5505.2.4, 5603.2.4, 5804.2.4
B 813—00e01	Specification for Liquid and Paste Fluxes for Soldering Applications of Copper and Copper Alloy Tube . . . . .	Table 7101.1
C 5—79(97)	Specification for Quicklime for Structural Purposes . . . . .	5702.2
C 27—98	Classification of Fireclay and High-alumina Refractory Brick . . . . .	6003.5, 6003.8
C 28/C28M—00	Specification for Gypsum Plasters . . . . .	5702.2
C 34—96(2001)	Specification for Structural Clay Load-bearing Wall Tile . . . . .	Table 5301.2(1)
C 35—95(2001)	Specification for Inorganic Aggregates for Use in Gypsum Plaster . . . . .	5702.2
C 36/C 0036M—01	Specification for Gypsum Wallboard . . . . .	5702.3.1
C 37/C 0037M—01	Specification for Gypsum Lath . . . . .	5702.2
C 55—01	Specification for Concrete Brick . . . . .	5202, Table 5301.2(1)
C 59/C 0059M—00	Specification for Gypsum Casting and Molding Plaster . . . . .	5702.2
C 61/C 0061M—00	Specification for Gypsum Keene's Cement . . . . .	5702.2
C 62—01	Specification for Building Brick (Solid Masonry Units Made from Clay or Shale) . . . . .	5202, Table 5301.2(1)
C 73—99a	Specification for Calcium Silicate Face Brick (Sand Lime Brick) . . . . .	5202, Table 5301.2(1)
C 79—01	Specification for Treated Core and Nontreated Core Gypsum Sheathing Board . . . . .	Table 5602.3(1), 5702.3.1
C 90—01	Specification for Load-bearing Concrete Masonry Units . . . . .	Table 5301.2(1)
C 129—01	Specification for Nonload-bearing Concrete Masonry Units and Related Units . . . . .	Table 5301.2(1)
C 143/C 0143M—00	Test Method for Slump or Hydraulic Cement Concrete . . . . .	5404.4.5, 5611.6.1
C 145—85	Specification for Solid Load-bearing Concrete Masonry Units . . . . .	5202, Table 5301.2(1)
C 199—84(2000)	Test Method for Pier Test for Refractory Mortar . . . . .	6001.9, 6003.5, 6003.8
C 207—97	Specification for Hydrated Lime for Masonry Purposes . . . . .	Table 5607.1
C 208—95(2001)	Specification for Cellulosic Fiber Insulating Board . . . . .	Table 5602.3(1)
C 216—01a	Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale) . . . . .	5202, Table 5301.2(1)
C 236—89 (1993)e1	Test Method for Steady-State Thermal Performance of Building Assemblies by Means of a Guarded Hot Box . . . . .	6102.1.1.1
C 270—01a	Specification for Mortar for Unit Masonry . . . . .	5607.1
C 315—00	Specification for Clay Flue Linings . . . . .	Table 6001.11(1), Table 6001.11(2), 6001.8.1, 7425.12
C 406—00	Specifications for Roofing Slate . . . . .	5905.6.4
C 411—97	Test Method for Hot-surface Performance of High-temperature Thermal Insulation . . . . .	6601.2.1
C 475—01	Specification for Joint Compound and Joint Tape for Finishing Gypsum Wallboard . . . . .	5702.3.1
C 476—01	Specification for Grout for Masonry . . . . .	5609.1.1
C 514—01	Specification for Nails for the Application of Gypsum Wallboard . . . . .	5702.3.1
C 557—99	Specification for Adhesives for Fastening Gypsum Wallboard to Wood Framing . . . . .	5702.3.1
C 578—01	Specification for Rigid, Cellular Polystyrene Thermal Insulation . . . . .	5403.3
C 587—97	Specification for Gypsum Veneer Plaster . . . . .	5702.2
C 588/C0588M—99	Specification for Gypsum Base for Veneer Plasters . . . . .	5702.2
C 630/0630M—01	Specification for Water-resistant Gypsum Backing Board . . . . .	5702.3.1, 5702.4.2
C 631—(2000)	Specification for Bonding Compounds for Interior Gypsum Plastering . . . . .	5702.2
C 645—00	Specification for Nonstructural Steel Framing Members . . . . .	5702.3.3
C 652—01a	Specification for Hollow Brick (Hollow Masonry Units Made from Clay or Shale) . . . . .	5202, Table 5301.2(1)
C 836—00	Specification for High Solids Content, Cold Liquid-applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course . . . . .	5905.15.2
C 843—99	Specification for Application of Gypsum Veneer Plaster . . . . .	5702.2
C 844—99	Specification for Application of Gypsum Base to Receive Gypsum Veneer Plaster . . . . .	5702.2
C 847—(2000)	Specification for Metal Lath . . . . .	5702.2
C 887—79(96)e <sup>1</sup>	Specification for Packaged, Dry, Combined Materials for Surface Bonding Mortar . . . . .	5406.1

ASTM—continued

C 897—00	Specification for Aggregate for Job-mixed Portland Cement-based Plasters . . . . .	5702.2
C 931—97	Specification for Exterior Gypsum Soffit Board . . . . .	5702.3.1
C 933—96a(2001)	Specification for Welded Wire Lath . . . . .	5702.2
C 954—00	Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness. . . . .	5505.2.4, 5603.2.4, 5702.3.6, 5804.2.4
C955—01	Specification for Load-Bearing Transverse and Axial Steel Studs, Runners Tracks, and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases . . . . .	5702.3.3
C 957—93(1998)	Specification for High-solids Content, Cold Liquid—Applied Elastomeric Waterproofing Membrane for Use with Integral Wearing Surface . . . . .	5905.15.2
C 960—01	Specification for Predecorated Gypsum Board . . . . .	5702.3.1
C 976—90(1996)e1	Test Method for Thermal Performance of Building Assemblies by Means of a Calibrated Hot Box . . . . .	6102.1.1.1
C 1002—01	Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases . . . . .	5702.3.1, 5702.3.6, Table 5702.3.4
C 1029—96	Specification for Spray-applied Rigid Cellular Polyurethane Thermal Insulation . . . . .	5905.14.2
C 1032—96	Specification for Woven Wire Plaster Base . . . . .	5702.2
C 1047—99	Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base . . . . .	5702.2, 5702.3.1
C 1063—99	Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-based Plaster . . . . .	5702.2
C 1157—00a	Performance Specification for Hydraulic Cements. . . . .	5402.2
C 1167—96	Specification for Clay Roof Tiles . . . . .	5905.3, 5905.3.4
C 1177/C 1177M—01	Specification for Glass Mat Gypsum Substrate for Use as Sheathing. . . . .	5702.3.1
C 1178/C 1178M—01	Specification for Glass Mat Water-resistant Gypsum Backing Panel . . . . .	5702.3.1, 5702.4.2
C 1186—99	Specification for Flat Nonasbestos Fiber Cement Sheets . . . . .	5703.4
C 1261—98	Specification for Firebox Brick for Residential Fireplaces . . . . .	5003.5, 5003.8
C 1278/C 1278M—01	Specification for Fiber-reinforced Gypsum Panels . . . . .	5702.3.1
C 1283—00e01	Practice for Installing Clay Flue Lining . . . . .	6001.9
C 1395/C 1395M—01	Specification for Gypsum Ceiling Board . . . . .	5702.3.1
C 1396—99	Specification for Gypsum Board . . . . .	5702.3.1
C 1492—01	Specification for Concrete Roof Tile . . . . .	5905.3.5
D 41—e01	Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing . . . . .	Table 5905.9.2, Table 5905.11.2
D 43—00	Specification for Coal Tar Primer Used in Roofing, Dampproofing and Waterproofing . . . . .	Table 5905.9.2
D 224—89(1996)	Specification for Smooth-surfaced Asphalt Roll Roofing (Organic Felt). . . . .	5905.2.8.2
D 225—01	Specification for Asphalt Shingles (Organic Felt) Surfaced with Mineral Granules . . . . .	5905.2.4
D 226—97a	Specification for Asphalt-saturated (Organic Felt) Used in Roofing and Waterproofing . . . . .	5703.2, 5703.9.1, Table 5905.2.3, 5905.4.3, 5905.5.3, 5905.5.4, 5905.6.3, 5905.7.3, 5905.8.3, 5905.8.4, Table 5905.9.2
D 227—97a	Specification for Coal Tar Saturated (Organic Felt) Used in Roofing and Waterproofing . . . . .	Table 5905.9.2
D 249—89(96)	Specification for Asphalt Roll Roofing (Organic Felt) Surfaced with Mineral Granules . . . . .	Table 5905.9.2, 5905.2.8.2, 5905.3.3, 5905.5.4
D 0312—00	Specification for Asphalt Used in Roofing . . . . .	5905.9.2
D 371—89(1996)	Specification for Asphalt Roll Roofing (Organic Felt) Surfaced with Mineral Granules: Wide-selvage . . . . .	5905.5.4
D 422—63(1998)	Test Method for Particle-size Analysis of Soils. . . . .	5403.1.7.5.1
D 449—89(1999)e01	Specification for Asphalt Used in Dampproofing and Waterproofing . . . . .	5406.2
D 450—(00)e <sup>1</sup>	Specification for Coal-tar Pitch Used in Roofing, Dampproofing and Waterproofing . . . . .	Table 5905.9.2
D 1227—00	Specification for Emulsified Asphalt Used as a Protective Coating for Roofing. . . . .	Table 5905.9.2, Table 5905.11.2, 5905.15.2
D 1248—00a	Specification for Polyethylene Plastics Extrusion Materials for Wire and Cable . . . . .	6601.1.2
D 1693—01	Test Method for Environmental Stress-cracking of Ethylene Plastics . . . . .	Table 7101.1
D 1784—99a	Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds . . . . .	6601.1.2
D 1863—93(2000)	Specification for Mineral Aggregate Used in Built-up Roofs . . . . .	Table 5905.9.2, Table 5906.3.2
D 1970—01	Specification for Self-adhering Polymer Modified Bitumen Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection . . . . .	5905.2.3, 5905.2.8.3
D 2178—97a	Specification for Asphalt Glass Felt Used in Roofing and Waterproofing . . . . .	Table 5905.9.2
D 2412—96a	Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-plate Loading . . . . .	6601.1.2
D 2447—01	Specification for Polyethylene (PE) Plastic Pipe Schedules 40 and 80, Based on Outside Diameter . . . . .	Table 7101
D 2513—01a	Specification for Thermoplastic Gas Pressure Pipe, Tubing, and Fittings. . . . .	Table 7101.1, 7104.2.1.3
D 2626—97b	Specification for Asphalt-saturated and Coated Organic Felt Base Sheet Used in Roofing . . . . .	5905.3.3, Table 5905.9.2

**REFERENCED STANDARDS**

**ASTM—continued**

D 2683—98	Specification for Socket-type Polyethylene Fittings for Outside Diameter-controlled Polyethylene Pipe and Tubing . . . . .	Table 7101.1, 7104.2.1.1
D 2822—91(1997)e <sup>1</sup>	Specification for Asphalt Roof Cement . . . . .	Table 5905.9.2, Table 5905.11.2
D 2823—90(1997)e <sup>1</sup>	Specification for Asphalt Roof Coatings . . . . .	Table 5905.9.2, Table 5905.11.2
D 2824—94	Specification for Aluminum-pigmented Asphalt Roof Coatings, Non-fibered, Asbestos Fibered, and Fibered without Asbestos . . . . .	Table 5905.9.2, Table 5905.11.2
D 2837—98a	Test Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials . . . . .	Table 7101.1
D 2846/D 2846M—99	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-water Distribution Systems . . . . .	7101.1
D 2898—94(1999)	Test Methods for Accelerated Weathering of Fire-retardant-treated Wood for Fire Testing . . . . .	5802.1.3.3, 5902.2
D 3019—e01	Specification for Lap Cement Used with Asphalt Roll Roofing, Non-fibered, Asbestos Fibered, and Non-asbestos Fibered . . . . .	Table 5905.9.2, Table 5905.11.2
D 3035—01	Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based On Controlled Outside Diameter . . . . .	Table 7101.1
D 3161—99a	Test Method for Wind Resistance of Asphalt Shingles (Fan Induced Method) . . . . .	5905.2.6
D 3201—94(1998)e <sup>1</sup>	Test Method for Hygroscopic Properties of Fire-retardant Wood and Wood-base Products . . . . .	5802.1.3.4
D 3309—96a	Specification for Polybutylene (PB) Plastic Hot- and Cold-water Distribution Systems . . . . .	Table 7101.1
D 3350—01	Specification for Polyethylene Plastic Pipe and Fitting Materials . . . . .	Table 7101.1
D 3462—01e01	Specification for Asphalt Shingles Made From Glass Felt and Surfaced with Mineral Granules . . . . .	5905.2.4
D 3468—99	Specification for Liquid-applied Neoprene and Chlorosulfanated Polyethylene Used in Roofing and Waterproofing . . . . .	Table 5905.15.2
D 3679—01c	Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding . . . . .	Table 5703.4
D 3737—99	Practice for Establishing Allowable Properties for Structural Glued Laminated Timber (Glulam) . . . . .	5502.1.5, 5602.1.2, 5802.1.4
D 3747—e01	Specification for Emulsified Asphalt Adhesive for Adhering Roof Insulation . . . . .	Table 5905.9.2, Table 5905.11.2
D 3909—97b	Specification for Asphalt Roll Roofing (Glass Felt) Surfaced with Mineral Granules . . . . .	5905.5.4, Table 5905.9.2, Table 5906.3.2
D 4022—94(00)e <sup>1</sup>	Specification for Coal Tar Roof Cement, Asbestos Containing . . . . .	Table 5905.9.2
D 4318—00	Test Methods for Liquid Limit, Plastic Limit and Plasticity Index of Soils . . . . .	5403.1.7.5.1
D 4434—96	Specification for Poly (Vinyl Chloride) Sheet Roofing . . . . .	5905.13.2
D 4479—00	Specification for Asphalt Roof Coatings-Asbestos-free . . . . .	Table 5905.9.2
D 4586—00	Specification for Asphalt Roof Cement-Asbestos-free . . . . .	Table 5905.9.2
D 4601—98	Specification for Asphalt-coated Glass Fiber Base Sheet Used in Roofing . . . . .	Table 5905.9.2
D 4637—96	Specification for EPDM Sheet Used in Single-ply Roof Membrane . . . . .	5905.12.2
D 4829—95	Test Method for Expansion Index of Soils . . . . .	5403.1.8.1
D 4869—88(1993)e <sup>1</sup>	Specification for Asphalt-saturated (Organic Felt) Underlayment Used in Steep Slope Roofing . . . . .	5905.2.3
D 4897—01	Specification for Asphalt Coated Glass-fiber Venting Base Sheet Used in Roofing . . . . .	Table 5905.9.2
D 4990—97a	Specification for Coal Tar Glass Felt Used in Roofing and Waterproofing . . . . .	Table 5905.9.2
D 5019-96	Specification for Reinforced Non-vulcanized Polymeric Sheet Used in Roofing Membrane . . . . .	5905.12.2
D 5055—00	Specification for Establishing and Monitoring Structural Capacities of Prefabricated Wood I-Joists . . . . .	5502.1.4
D 5516—99a	Test Method for Evaluating the Flexural Properties of Fire-retardant-treated Softwood Plywood Exposed to the Elevated Temperatures . . . . .	5802.1.3.2.1
D 5643—94(00)e <sup>1</sup>	Specification for Coal Tar Roof Cement Asbestos-free . . . . .	Table 5905.9.2
D 5664—01	Test Methods For Evaluating the Effects of Fire-retardant Treatments and Elevated Temperatures on Strength Properties of Fire-retardant-treated Lumber . . . . .	5802.1.3.2.2
D 5665—99a	Specification for Thermoplastic Fabrics Used in Cold-applied Roofing and Waterproofing . . . . .	Table 5905.9.2
D 5726—98	Specification for Thermoplastic Fabrics Used in Hot-applied Roofing and Waterproofing . . . . .	Table 5905.9.2
D 6083—97a	Specification for Liquid Applied Acrylic Coating Used in Roofing . . . . .	Table 5905.9.2, Table 5905.11.2, Table 5905.15.2
D 6162—00a	Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements . . . . .	Table 5905.11.2
D 6163—00	Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements . . . . .	Table 5905.11.2
D 6164—00	Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Polyester Reinforcements . . . . .	Table 5905.11.2
D 6221—00	Specification for Reinforced Bituminous Flashing Sheets for Roofing and Waterproofing . . . . .	Table 5905.11.2
D 6222—00e01	Specification for Atactic Polypropelene (APP) Modified Bituminous Sheet Materials Using Polyester Reinforcement . . . . .	Table 5905.11.2
D 6223—00e01	Specification for Atactic Polypropelene (APP) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcement . . . . .	Table 5905.11.2
D 6298—98	Specification for Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Bituminous Sheets with a Factory Applied Metal Surface . . . . .	Table 5905.11.2
D 6305—98e1	Practice for Calculating Bending Strength Design Adjustment Factors for Fire-Retardant-Treated Plywood Roof Sheathing . . . . .	5802.1.3.2.1

ASTM—continued

E 84—01	Test Method for Surface Burning Characteristics of Building Materials . . . . .	5202, 5314.1.1, 5314.2.6, 5314.3, 5315.3, 5316.1, 5316.2, 5802.1.3, 6601.2.1, 6601.4.2
E 96—00	Test Method for Water Vapor Transmission of Materials . . . . .	5202, 6411.4, 6601.3.4, 6102.1.7
E 108—99	Test Methods for Fire Tests of Roof Coverings . . . . .	5902.1, 5902.2
E 119—00a	Test Methods for Fire Tests of Building Construction and Materials . . . . .	5314.1.2, 5317.1, 5317.3.1
E 136—99	Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C . . . . .	5202
E 152—95	Methods of Fire Tests of Door Assemblies . . . . .	5314.3
E 330—97e <sup>1</sup>	Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference . . . . .	5613.3
E 814—00	Test Method for Fire Tests of Through-penetration Firestops . . . . .	5317.3.1.2
E 970—00	Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source . . . . .	5316.5
E 1602—94	Guide for Construction of Solid Fuel Burning Masonry Heaters . . . . .	6006.2
E 1886—97	Test Method for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Missiles and Exposed to Cyclic Pressure Differentials . . . . .	5301.2.1.2
E 1996—01	Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes . . . . .	5301.2.1.2
F 1055—98	Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Fittings . . . . .	Table 7101.1, 7104.2.1.2
F 1281—e01	Specification for Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Pressure Pipe . . . . .	Table 7101.1
F 1667—01a	Specification for Driven Fasteners, Nails, Spikes, and Staples . . . . .	5905.2.5
F 1807—99	Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing . . . . .	Table 7101.1

American Wood-Preservers' Association  
P.O. Box 5690  
Granbury, Texas 76049



Standard reference number	Title	Referenced in code section number
C1—00	All Timber Products — Preservative Treatment by Pressure Processes . . . . .	5319.1, 5323.1.7, 5902.2.1
C2—01	Lumber, Timbers, Bridge Ties and Mine Ties — Preservative Treatment by Pressure Processes . . . . .	5319.1, 5323.1.7, Table 5905.8.5
C3—99	Piles — Preservative Treatment by Pressure Processes . . . . .	5319.1, 5323.1.7
C4—99	Poles — Preservative Treatment by Pressure Processes . . . . .	5319.1, 5323.1.7
C9—00	Plywood — Preservative Treatment by Pressure Processes . . . . .	5319.1, 5323.1.7
C15—00	Wood for Commercial-Residential Construction Preservative Treatment by Pressure Process . . . . .	5319.1, 5323.1.7
C18—99	Standard for Pressure Treated Material in Marine Construction . . . . .	5319.1, 5323.1.7
C20—99	Structural Lumber—Fire-retardant Treatment by Pressure Processes . . . . .	5802.1.3.2
C22—96	Lumber and Plywood for Permanent Wood Foundations—Preservative Treatment by Pressure Processes . . . . .	5319.1, 5323.1.7, 5402.1.2, 5504.3
C23—00	Round Poles and Posts Used in Building Construction—Preservative Treatment by Pressure Processes . . . . .	5319.1, 5323.1.7
C24—96	Sawn Timber Used to Support Residential and Commercial Structures . . . . .	5319.1, 5323.1.7
C27—88	Plywood—Fire-retardant Treatment by Pressure Process . . . . .	5802.1.3.2
C28—99	Standard for Preservative Treatment by Pressure Process of Structural Glued Laminated Members and Laminations Before Gluing . . . . .	5319.1, 5323.1.7
C31—01	Lumber Used Out of Contact With the Ground and Continuously Protected From Liquid Water—Treatment by Pressure Processes . . . . .	5319.1
C33—00	Standard for Preservative Treatment of Structural Composite Lumber by Pressure Processes . . . . .	5323.1
M4—01	Standard for the Care of Preservative-treated Wood Products . . . . .	5320.3.1
P1/P13—01	Standard for Creosote Preservative . . . . .	5319.1, 5323.1.7
P2—01	Standard for Creosote Solutions . . . . .	5319.1, 5323.1.7
P3—01	Standard for Creosote-petroleum Solutions . . . . .	5319.1, 5323.1.7

**REFERENCED STANDARDS**

**CDA** The Copper Development Association, Inc.  
260 Madison Avenue  
New York, NY 10016

Standard reference number	Title	Referenced in code section number
4050	Copper in Architecture—Design Handbook	Table 5905.10.3

**CGSB** Canadian General Standards Board  
Place du Portage 111, 6B1  
11 Laurier Street  
Gatineau, Quebec, Canada KIA 1G6

Standard reference number	Title	Referenced in code section number
37-GP—52M—(1984)	Roofing and Waterproofing Membrane, Sheet Applied, Elastomeric	5905.12.2
37-GP—56M—(1980)	Membrane, Modified Bituminous, Prefabricated and Reinforced for Roofing— with December 1985 Amendment	Table 5905.11.2
CAN/CGSB-37.54—95	Polyvinyl Chloride Roofing and Waterproofing Membrane	5905.13.2

**CMR** Code of Massachusetts Regulation  
Secretary of the Commonwealth

*Various construction code requirements and other regulatory requirements are found in CMRs in addition to the regulatory requirements of the Massachusetts State Building Code (780 CMR); the CMRs identified below, along with the State Agency or Board that promulgates same, are referenced in the Seventh Edition of the Massachusetts State Building Code.*

Standard reference number	Title	Referenced in code section number
105 CMR	Department of Public Health	.When applicable
310 CMR	Department of Environmental Protection	.When applicable
248 CMR	Board of State Examiners of Plumbers and Gasfitters	.When applicable
520 CMR	Department of Public Safety	.When applicable
521 CMR	Architectural Access Board	.When applicable
522 CMR	Board of Boiler Rules	.When applicable
524 CMR	Board of Elevator Regulations	.When applicable
527 CMR	Board of Fire Prevention Regulations	.When applicable

**CPSC** Consumer Product Safety Commission  
4330 East West Highway  
Bethesda, MD 20814-4408

Standard reference number	Title	Referenced in code section number
16 CFR Part 1201—(1977)	Safety Standard for Architectural Glazing	R308.1.1, R308.3
16 CFR Part 1209—(1979)	Interim Safety Standard for Cellulose Insulation	.R316.3
16 CFR Part 1404—(1979)	Cellulose Insulation	.R316.3

**CSA** Canadian Standards Association  
178 Rexdale Blvd.  
Rexdale (Toronto), Ontario, Canada M9W 1R3

Standard reference number	Title	Referenced in code section number
0325.0—92	Construction Sheathing (Reaffirmed 1998)	5503.2.1
0437-Series—93	Standards on OSB and Waferboard (Reaffirmed 2001)	5503.2.1, 5803.2.1



# CSSB

Cedar Shake & Shingle Bureau  
515 116th Avenue, NE, #275  
Bellevue, WA 98004-5294

Standard reference number	Title	Referenced in code section number
CSSB—97	Grading and Packing Rules for Western Red Cedar Shakes and Western Red Shingles of the Cedar Shake and Shingle Bureau . . . . .	Table 5905.7.4, 5702.6, 5703.5
CSSB—97	Grading and Packing Rules for Western Red Cedar Shakes and Western Red Shingles of the Cedar Shake and Shingle Bureau . . . . .	Table 5905.7.4, 5703.5

# DOC

United States Department of Commerce  
100 Bureau Drive Stop 3460  
Gaithersburg, MD 20899

Standard reference number	Title	Referenced in code section number
PS 1—95	Construction and Industrial Plywood . . . . .	5404.2.1, Table 5404.2.3, 5503.2.1, 5604.1, 5803.2.1
PS 2—92	Performance Standard for Wood-based Structural-use Panels . . . . .	5404.2.1, Table 5404.2.3, 5503.2.1, 5604.1, 5803.2.1
PS 20—99	American Softwood Lumber Standard . . . . .	5404.2.1, 5502.1, 5602.1, 5802.1

# FEMA

Federal Emergency Management Agency  
500 C Street, SW  
Washington, DC 20472

Standard reference number	Title	Referenced in code section number
TB-2—93	Flood-resistant Materials Requirements . . . . .	5323.1.7
TB-11—01	Crawlspace Construction for Buildings Located in Special Flood Hazard Area . . . . .	5408.6

# FM

Factory Mutual  
Standards Laboratories Department  
1151 Boston Providence Turnpike  
Norwood, MA 02062

Standard reference number	Title	Referenced in code section number
4450—(1989)	Approval Standard for Class 1 Insulated Steel Deck Roofs—with Supplements through July 1992 . . . . .	5906.1
4880—(2001)	American National Standard for Evaluating Insulated Wall or Wall and Roof/Ceiling Assemblies, Plastic Interior Finish Materials, Plastic Exterior Building Panels, Wall/Ceiling Coating Systems, Interior or Exterior Finish Systems . . . . .	5314.3

# GA

Gypsum Association  
810 First Street, Northeast, Suite 510  
Washington, DC 20002-4268

Standard reference number	Title	Referenced in code section number
GA-253—99	Recommended Standard Specification for the Application of Gypsum Sheathing . . . . .	Table 5602.3(1)

REFERENCED STANDARDS

**HPVA**

Hardwood Plywood & Veneer Association  
1825 Michael Faraday Drive  
Reston, Virginia 20190-5350

Standard reference number	Title	Referenced in code section number
HP-1—2000	The American National Standard for Hardwood and Decorative Plywood . . . . .	5702.5

**ICC**

International Code Council  
5203 Leesburg Pike, Suite 600  
Falls Church, VA 22041

Standard reference number	Title	Referenced in code section number
IBC—03	International Building Code® . . . . .	5110.2, 5322.1, 5323.1, 5323.1.5, 5403.1.8, 6001.8.2, 7402.3
ICC EC—03	Mass. Electrical Code—Administrative Provisions . . . . .	5107.3
IMC—03	International Mechanical Code® . . . . .	5104.11, 7106.1, 7402.3
SBCCI SSTD 10—99	Standard for Hurricane Resistant Construction . . . . .	5301.2.1.1

**NAIMA**

North American Insulation Manufacturers Association  
44 Canal Center Plaza, Suite 310  
Alexandria, VA 22314

Standard reference number	Title	Referenced in code section number
AH 116 06—02	Fibrous Glass Duct Construction Standards . . . . .	6601.1.1

**NCMA**

National Concrete Masonry Association  
2302 Horse Pen Road  
Herndon, VA 20171-3499

Standard reference number	Title	Referenced in code section number
TR 68-A—75	Design and Construction of Plain and Reinforced Concrete Masonry and Basement and Foundation Walls . . . . .	5404.1

**NFPA**

National Fire Protection Association  
Batterymarch Park  
Quincy, MA 02269

Standard reference number	Title	Referenced in code section number
13—02	Installation of Sprinkler Systems . . . . .	5317.1
13D—02	Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes . . . . .	5313.4
72—02	National Fire Alarm Code . . . . .	5313.1
<b>211—03</b>	<b>Chimneys, Fireplaces, Vents, and Solid-fuel-burning Appliances.</b> . . . .	<b>6007.1, Table 6007.6.1, 6007.11.1</b>
259—98	Standard Test Method for Potential Heat of Building Materials . . . . .	5314.2.5
286—00	Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth . . . . .	5314.3, 5315.4
501—99	Standard on Manufactured Housing. . . . .	5202
853—00	Standard for the Installation of Stationary Fuel Cell Power Plants . . . . .	6903.1

# NFRC

National Fenestration Rating Council, Inc.  
8484 Georgia Avenue, Suite 320  
Silver Spring, MD 20910

Standard reference number	Title	Referenced in code section number
100—2001	Procedure for Determining Fenestration Product U-factors . . . . .	6101.3.2, 6101.3.2.1
200—2001	Procedure for Determining Fenestration product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence . . . . .	6101.3.2, 6101.3.2.1
400—2001	Procedure for Determining Fenestration Product Air Leakage . . . . .	6101.3.2.2

# RMA

Rubber Manufacturer's Association  
1400 K Street N.W., Suite 900  
Washington, DC 20005

Standard reference number	Title	Referenced in code section number
RP1—90	Minimum Requirements for Non-Reinforced Black EPDM Rubber Sheets . . . . .	5905.12.2
RP2—90	Minimum Requirements for Fabric-Reinforced Black EPDM Rubber Sheets . . . . .	5905.12.2
RP3—85	Minimum Requirements for Fabric-Reinforced Black Polychloroprene Rubber Sheets . . . . .	5905.12.2

# SAE

Society of Automotive Engineers  
400 Commonwealth Drive  
Warrendale, PA 15096

Standard reference number	Title	Referenced in code section number
J 78—(1998)	Steel Self-drilling Tapping Screws. . . . .	5505.2.4, 5603.2.4, 5804.2.4

# SMACNA

Sheet Metal & Air Conditioning Contractors National Assoc., Inc.  
4021 Lafayette Center Road  
Chantilly, VA 22021

Standard reference number	Title	Referenced in code section number
SMACNA—92	Fibrous Glass Duct Construction Standards . . . . .	5601.1.1

# TMS

The Masonry Society  
3970 Broadway, Suite 201-D  
Boulder, CO 80304

Standard reference number	Title	Referenced in code section number
402—02	Building Code Requirements for Masonry Structures . . . . .	5404.1, 5606.1, 5606.1.1, 5606.11.1, 5606.11.2.2.1, 5606.11.2.2.2, 5606.11.3.1
602—02	Specification for Masonry Structures . . . . .	5404.1, 5606.1, 5606.1.1, 5606.11.1, 5606.11.2.2.1, 5606.11.2.2.2, 5606.11.3.1

**REFERENCED STANDARDS**

**TPI**

Truss Plate Institute  
583 D’Onofrio Drive, Suite 200  
Madison, WI 53719

Standard reference number	Title	Referenced in code section number
TPI 1—2002	National Design Standard for Metal-plate-connected Wood Truss Construction . . . . .	5502.11.1, 5502.11.2, 5802.10.2, 5802.10.3, 5802.11.1

**UL**

Underwriters Laboratories, Inc.  
333 Pfingsten Road  
Northbrook, IL 60062

Standard reference number	Title	Referenced in code section number
17—94	Vent or Chimney Connector Dampers for Oil-fired Appliances—with Revisions through September 1999. . . . .	6802.2.2
58—96	Steel Underground Tanks for Flammable and Combustible Liquids—with Revisions through July 1998 . . . . .	7201.1
80—96	Steel Inside Tanks for Oil-burner Fuel . . . . .	7201.1
103—98	Factory-built Chimneys for Residential Type and Building Heating Appliances— with Revision through March 1999. . . . .	5202, 6002.3
127—99	Factory-built Fireplaces—with Revisions through November 1999 . . . . .	6002.4, 6003.12, 6004.1, 6004.4
174—98	Household Electric Storage Tank Water Heaters—with Revisions through October 1999 . . . . .	7005.1
181—96	Factory-made Air Ducts and Air Connectors—with Revisions through December 1998 . . . . .	6601.2, 6601.3.1
181A—95	Closure Systems for Use with Rigid Air Ducts and Air Connectors— with Revisions through December 1998. . . . .	6601.2, 6601.3.1
181B—98	Closure Systems for Use with Flexible Air Ducts and Air Connectors— with Revisions through December 1998. . . . .	6601.2, 6601.3.1
325—95	Door, Drapery, Louver and Window Operations and Systems—with Revisions through June 2001 . . . . .	5309.6
343—97	Pumps for Oil-Burning Appliances—with Revisions through December 22, 1999. . . . .	7204.1
536—97	Flexible Metallic Hose—with Revisions through October 2000 . . . . .	7202.3
641—95	Type L, Low-temperature Venting Systems—with Revisions through April 1999. . . . .	5202, 6001.8.5, 6804.2.4
737—96	Fireplaces Stoves—with Revisions through May 1998. . . . .	6002.3, 6414.1
790—98	Tests for Fire Resistance of Roof Covering Materials—with Revisions through July 1998 . . . . .	5902.1
959—01	Medium Heat Appliance Factory-built Chimneys . . . . .	6002.6
923—95	Microwave Cooking Appliances—with Revisions through July 20, 1998. . . . .	6503.1
1040—96	Fire Test of Insulated Wall Construction—with Revisions through April 2001. . . . .	5314.3
1256—98	Fire Test of Roof Deck Construction—with Revisions through March 2000 . . . . .	5906.1
1479—94	Fire Tests of Through-Penetration Firestops. . . . .	5317.3.1.2
1482—98	Solid-fuel Type Room Heaters—with Revisions through January 2000 . . . . .	6410.1
1715—97	Fire Test of Interior Finish Material . . . . .	5314.3
1777—98	Chimney Liners—with Revisions through July 1998. . . . .	6001.8.1, 6001.15, 6801.3.4
1995—98	Heating and Cooling Equipment—with Revisions through August 1999 . . . . .	6402.1, 6403.1, 6407.1
2158A—96	Outline of Investigation for Clothes Dryer Transition Duct . . . . .	6501.1

**ULC**

Underwriters’ Laboratories of Canada  
7 Crouse Road  
Scarborough, Ontario, Canada MIR 3A9

Standard reference number	Title	Referenced in code section number
S 102—M88	Surface Burning Characteristics of Building Materials and Assemblies . . . . .	5316.2



Window & Door Manufacturers Association  
1400 East Touhy Avenue, Suite 470  
Des Plaines, IL 60018

Standard reference number	Title	Referenced in code section number
101/I.S. 2—97	Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors .....	5613.3
101/I.S.2/NAFS—02	Voluntary Performance Specification for Windows, Skylights and Glass Doors .....	5308.6.9, 5613.3, 6101.3.2.2

