ASTM standards are widely used by the construction and building design industries as authentic sources of test procedures and as a basis for acceptable quality for materials and constructions. To meet the needs of these industries, ASTM International has developed this compilation as a convenient reference source of ASTM construction-related standards.

Included are ASTM standards referenced by the following nationally known building codes:

- International Code Council® (ICC®), comprised of the following:
  - BOCA (Building Officials and Code Administrators, International, Inc.)
  - SBCCI (Southern Building Code Congress International)
  - ICBO (International Conference of Building Officials)

- National Building Code of Canada — National Research Council Canada

- Uniform Plumbing Code and Uniform Mechanical Code — IAPMO (International Association of Plumbing and Mechanical Officials)

Also included are ASTM standards referenced by the following organizations:

- MASTERSPEC® — A product of The American Institute of Architects (AIA), produced by ARCOM Master Systems

- SPECTEXT® — Master Guide Specifications

- BSD SpecLink® — Building Systems Design

- NFPA 5000® — Building Construction and Safety Code®

The standards are arranged in alphanumerical sequence. Volume 1 includes standards A 6 through C 173. Volume 2 includes standards C 177 through D 870. Volume 3 includes standards D 882 through E 90. Volume 4 includes standards E 94 through G 155, as well as a comprehensive index by subject.

More than 1300 standards are included from 40 volumes of the 81-volume Annual Book of ASTM Standards. These standards represent the combined efforts, experience, knowledge, and abilities of a vast number of technical experts from various areas of the construction industry who serve on numerous ASTM technical committees. These committees, representing producer, user, consumer, and general interest members, work out and agree upon the details of the various standards, and make their recommendations to ASTM International. This is done in accordance with rigorous balloting procedures designed to give ample opportunity for all concerned to express their views and to reach agreement.

Membership in ASTM International is open to anyone concerned with the fields in which ASTM is active. Technical committee membership is open to ASTM members interested in standards development. Applications for technical committee membership are available from ASTM International Headquarters. (The committee with jurisdiction for a particular standard is noted in footnote 1 of that standard.)

Your comments or suggestions for revisions to this publication are welcome. Any such correspondence, as well as requests for additional information, should be addressed to Product Manager, Publications Division, ASTM International, PO Box C700, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.
The following standards have been withdrawn by their sponsoring committees. Replacements are noted here and included in their entirety in this version of ASTM Standards in Building Codes.

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1 Available from International Organization for Standardization, 1 Rue de Varembe, Case Postale 56, CH-1211, Geneva 20, Switzerland.
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In the serial designations prefixed to the following titles, the number following the dash indicates the year of original issue, or in the case of revision, the year of last revision. Thus, standards adopted or revised during the year 2007 have as their final number 07. A letter following this number indicates more than one revision during that year, that is, 07a indicates the second revision in 2007, 07b the third revision, etc. Standards that have been reapproved without change are indicated by the year of last reapproval in parentheses as part of the designation number, for example, (2007). A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval—ε1 for the first change, ε2 for the second change, etc. Since the standards in this book are arranged in alphanumeric sequence, no page numbers are included in this contents.

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- A 690 / A 690M – 07 High-Strength Low-Alloy Nickel, Copper, Phosphorus Steel H-Piles and Sheet Piling with
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- A 913 / A 913M – 04 High-Strength Low-Alloy Steel Shapes of Structural Quality, Produced by Quenching and
  Self-Tempering Process (QST)
- A 588 / A 588M – 05 High-Strength Low-Alloy Structural Steel, up to 50 ksi [345 MPa] Minimum Yield Point, with
  Atmospheric Corrosion Resistance
- A 242 / A 242M – 04x High-Strength Low-Alloy Structural Steel
- A 514 / A 514M – 05 High-Yield-Strength, Quenched and Tempered Alloy Steel Plate, Suitable for Welding
- A 786 / A 786M – 05 Hot-Rolled Carbon, Low-Alloy, High-Strength Low-Alloy, and Alloy Steel Floor Plates
- A 656 / A 656M – 05x Hot-Rolled Structural Steel, High-Strength Low-Alloy Plate with Improved Formability
- A 283 / A 283M – 03 Low and Intermediate Tensile Strength Carbon Steel Plates
- A 857 / A 857M – 07 Steel Sheet Piling, Cold Formed, Light Gauge
A 328 / A 328M – 07  Steel Sheet Piling
A 898 / A 898M – 91(2001)  Straight Beam Ultrasonic Examination of Rolled Steel Structural Shapes
A 992 / A 992M – 06a  Structural Steel Shapes

**Tin Mill Products**

*Specifications for:*
A 625 / A 625M – 03  Tin Mill Products, Black Plate, Single-Reduced

**TEMPERATURE MEASUREMENT**

*Liquid-in-Glass Thermometers and Hydrometers*

*Specifications for:*
E 1 – 05  ASTM Liquid-in-Glass Thermometers

*Test Methods for:*
E 77 – 98(2003)  Inspection and Verification of Thermometers

**TEXTILES**

*Fabric Test Methods, General*

*Test Methods for:*

*Fabric Test Methods, Specific*

*Test Methods for:*
D 5035 – 06  Breaking Force and Elongation of Textile Fabrics (Strip Method)
D 5034 – 95(2001)  Breaking Strength and Elongation of Textile Fabrics (Grab Test)
D 3776 – 96(2002)  Mass Per Unit Area (Weight) of Fabric

**Glass Fiber and its Products**

*Specifications for:*
D 578 – 05  Glass Fiber Strands
D 3656 – 04  Insect Screening and Louver Cloth Woven from Vinyl-Coated Glass Yarns

**Home Furnishings**

*Specifications for:*
D 3597 – 02  Woven Upholstery Fabrics—Plain, Tufted, or Flocked

**Pile Floor Coverings**

*Test Methods for:*
D 2646 – 05  Backing Fabric Characteristics of Pile Yarn Floor Coverings
D 6859 – 05  Pile Thickness of Finished Level Pile Yarn Floor Coverings
D 3936 – 05  Resistance to Delamination of the Secondary Backing of Pile Yarn Floor Covering
D 1335 – 05  Tuft Bind of Pile Yarn Floor Coverings

**THERMAL INSULATION**

*Blanket and Loose Fill Insulation*

*Specifications for:*
C 739 – 05b  Cellulosic Fiber Loose-Fill Thermal Insulation
C 1071 – 05  Fibrous Glass Duct Lining Insulation (Thermal and Sound Absorbing Material)
C 1290 – 06  Flexible Fibrous Glass Blanket Insulation Used to Externally Insulate HVAC Ducts
C 991 – 03  Flexible Fibrous Glass Insulation for Metal Buildings
C 592 – 04  Mineral Fiber Blanket Insulation and Blanket-Type Pipe Insulation (Metal-Mesh Covered) (Industrial Type)
C 553 – 02  Mineral Fiber Blanket Thermal Insulation for Commercial and Industrial Applications
C 764 – 06a  Mineral Fiber Loose-Fill Thermal Insulation
C 665 – 06  Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing
C 549 – 06  Perlite Loose Fill Insulation
C 1149 – 06  Self-Supported Spray Applied Cellulosic Thermal Insulation
C 1014 – 03 Spray-Applied Mineral Fiber Thermal and Sound Absorbing Insulation
C 516 – 02 Vermiculite Loose Fill Thermal Insulation

Practices for:
C 1015 – 06 Installation of Cellulosic and Mineral Fiber Loose-Fill Thermal Insulation
C 1320 – 05 Installation of Mineral Fiber Batt and Blanket Thermal Insulation for Light Frame Construction

Chemical and Physical Properties

Test Methods for:
C 871 – 04 Chemical Analysis of Thermal Insulation Materials for Leachable Chloride, Fluoride, Silicate, and Sodium Ions
C 411 – 05 Hot-Surface Performance of High-Temperature Thermal Insulation

Homogeneous Inorganic Thermal Insulations

Specifications for:
C 533 – 07 Calcium Silicate Block and Pipe Thermal Insulation
C 552 – 03 Cellular Glass Thermal Insulation
C 196 – 00(2005) Expanded or Exfoliated Vermiculite Thermal Insulating Cement
C 612 – 04 Mineral Fiber Block and Board Thermal Insulation
C 449 / C 449M – 00 Mineral Fiber Hydraulic-Setting Thermal Insulating and Finishing Cement
C 547 – 06 Mineral Fiber Pipe Insulation
C 726 – 05 Mineral Fiber Roof Insulation Board
C 195 – 00 Mineral Fiber Therma Insulating Cement
C 610 – 05 Molded Expanded Perlite Block and Pipe Thermal Insulation
C 795 – 03 Thermal Insulation for Use in Contact with Austenitic Stainless Steel

Practices for:
C 450 – 02 Fabrication of Thermal Insulating Fitting Covers for NPS Piping, and Vessel Lagging

Insulation Finishes and Moisture

Specifications for:
C 1136 – 06 Flexible, Low Permeance Vapor Retarders for Thermal Insulation

Test Methods for:
E 96 / E 96M – 05 Water Vapor Transmission of Materials

Practices for:
C 921 – 03a Determining the Properties of Jacketing Materials for Thermal Insulation
C 755 – 03 Selection of Water Vapor Retarders for Thermal Insulation

Mechanical Properties

Test Methods for:
C 209 – 98 Cellulosic Fiber Insulating Board
C 520 – 04 Density of Granular Loose Fill Insulations
C 303 – 02 Dimensions and Density of Preformed Block and Board-Type Thermal Insulation

Organic and Nonhomogeneous Inorganic Thermal Insulations

Specifications for:
C 208 – 95(2001) Cellulosic Fiber Insulating Board
C 1427 – 04 Extruded Preformed Flexible Cellular Polyolefin Thermal Insulation in Sheet and Tubular Form
C 1289 – 06 Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board
C 1126 – 04 Faced or Unfaced Rigid Cellular Phenolic Thermal Insulation
C 728 – 05 Perlite Thermal Insulation Board
C 534 – 05 Preformed Flexible Elastomeric Cellular Thermal Insulation in Sheet and Tubular Form
C 578 – 06 Rigid, Cellular Polystyrene Thermal Insulation
C 1029 – 05a Spray-Applied Rigid Cellular Polyurethane Thermal Insulation
C 591 – 05 Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation

Practices for:

Reflective Insulation
Specifications for:
C 1313 – 05  Sheet Radiant Barriers for Building Construction Applications

Practices for:
C 1321 – 04  Installation and Use of Interior Radiation Control Coating Systems (IRCCS) in Building Construction
C 1158 – 05  Installation and Use of Radiant Barrier Systems (RBS) in Building Construction

Terminology for:
C 168 – 05a  Thermal Insulation

Test Methods for:
C 1371 – 04a Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers
C 1199 – 00  Measuring the Steady-State Thermal Transmittance of Fenestration Systems Using Hot Box Methods
C 335 – 05a Steady-State Heat Transfer Properties of Pipe Insulation
C 1363 – 05  Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus

Practices for:
C 1045 – 01  Calculating Thermal Transmission Properties Under Steady-State Conditions

THERMAL MEASUREMENTS
Thermal Test Methods and Practices

Test Methods for:
E 831 – 06  Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis

VITRIFIED CLAY PIPE
Methods of Test and Specifications

Specifications for:
C 4 – 04 \( ^{e1} \)  Clay Drain Tile and Perforated Clay Drain Tile
C 315 – 06  Clay Flue Liners
C 425 – 04  Compression Joints for Vitrified Clay Pipe and Fittings
C 700 – 05  Vitrified Clay Pipe, Extra Strength, Standard Strength, and Perforated

Practices for:
C 1283 – 06  Installing Clay Flue Lining
C 12 – 06   Installing Vitrified Clay Pipe Lines

WATER
General Specifications, Technical Resources, and Statistical Methods

Terminology for:
D 1129 – 06a  Water

Inorganic Constituents in Water

Test Methods for:
D 1067 – 06  Acidity or Alkalinity of Water
D 1126 – 02  Hardness in Water
D 1068 – 05\( ^{e1} \)  Iron in Water
D 859 – 05  Silica in Water


Practices for:
D 1066 – 06  Sampling Steam
D 3370 – 95a(2003)\( ^{e1} \) Sampling Water from Closed Conduits
WEATHERING AND DURABILITY

Biological Deterioration

Practices for:
Determining Resistance of Synthetic Polymeric Materials to Fungi

Natural and Environmental Exposure Tests

Practices for:
G 90 – 05
Performing Accelerated Outdoor Weathering of Nonmetallic Materials Using Concentrated Natural Sunlight

Simulated and Controlled Exposure Tests

Practices for:
G 153 – 04
Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials
G 154 – 06
Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials
G 152 – 06
Operating Open Flame Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials
G 155 – 05a
Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials

WOOD

Fire Performance of Wood

Test Methods for:
Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing
D 5664 – 02
Evaluating the Effects of Fire-Retardant Treatments and Elevated Temperatures on Strength Properties of Fire-Retardant Treated Lumber
D 5516 – 03
Evaluating the Flexural Properties of Fire-Retardant Treated Softwood Plywood Exposed to Elevated Temperatures
Hygroscopic Properties of Fire-Retardant Wood and Wood-Based Products

Practices for:
D 6305 – 02e1
Calculating Bending Strength Design Adjustment Factors for Fire-Retardant-Treated Plywood
D 6841 – 03
Calculating Design Value Treatment Adjustment Factors for Fire-Retardant-Treated Lumber

Fundamental Test Methods & Properties

Test Methods for:
Direct Moisture Content Measurement of Wood and Wood-Base Materials
D 2394 – 05
Simulated Service Testing of Wood and Wood-Base Finish Flooring
D 143 – 94(2000)e1
Small Clear Specimens of Timber
D 198 – 05a
Static Tests of Lumber in Structural Sizes
Use and Calibration of Hand-Held Moisture Meters

Lumber and Engineered Wood Products

Specifications for:
D 5055 – 05
Establishing and Monitoring Structural Capacities of Prefabricated Wood I-Joists
D 5456 – 06
Evaluation of Structural Composite Lumber Products

Practices for:
D 3737 – 06
Establishing Allowable Properties for Structural Glued Laminated Timber (Glulam)
D 3957 – 06
Establishing Stress Grades for Structural Members Used in Log Buildings
D 245 – 06
Establishing Structural Grades and Related Allowable Properties for Visually Graded Lumber

Panel Products

Test Methods for:
D 1037 – 06a
Evaluating Properties of Wood-Base Fiber and Particle Panel Materials

Pole and Pile Products

Specifications for:
D 3200 – 74(2005)
Establishing Recommended Design Stresses for Round Timber Construction Poles
D 25 – 99(2005)
Round Timber Piles

Treatments for Wood Products

Test Methods for:
D 1413 – 05b
Wood Preservatives by Laboratory Soil-Block Cultures
Wood Assemblies

Specifications for:
D 5933 – 96(2001) 2%-in. and 4-in. Diameter Metal Shear Plates for Use in Wood Constructions

Test Methods for:
D 1761 – 06 Mechanical Fasteners in Wood