

ASTM Volume 04.06, November 2018

Thermal Insulation; Building and Environmental Acoustics

C163-05(2016) Standard Practice for Mixing Thermal Insulating Cement Samples

C165-07(2017) Standard Test Method for Measuring Compressive Properties of Thermal Insulations

C166-05(2016) Standard Test Method for Covering Capacity and Volume Change Upon Drying of Thermal Insulating Cement

C167-15 Standard Test Methods for Thickness and Density of Blanket or Batt Thermal Insulations

C168-18 Standard Terminology Relating to Thermal Insulation

C177-13 Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus

C195-07(2013) Standard Specification for Mineral Fiber Thermal Insulating Cement

C196-00(2016) Standard Specification for Expanded or Exfoliated Vermiculite Thermal Insulating Cement

C203-05a(2017) Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation

C208-12(2017)e1 Standard Specification for Cellulosic Fiber Insulating Board

C209-15 Standard Test Methods for Cellulosic Fiber Insulating Board

C240-18 Standard Test Methods for Testing Cellular Glass Insulation Block

C302-13(2017) Standard Test Method for Density and Dimensions of Preformed Pipe-Covering-Type Thermal Insulation

C303-10(2016)e1 Standard Test Method for Dimensions and Density of Preformed Block and Board-Type Thermal Insulation

C335/C335M-17 Standard Test Method for Steady-State Heat Transfer Properties of Pipe Insulation

C356-17 Standard Test Method for Linear Shrinkage of Preformed High-Temperature Thermal Insulation Subjected to Soaking Heat

C367/C367M-16 Standard Test Methods for Strength Properties of Prefabricated Architectural Acoustical Tile or Lay-In Ceiling Panels

C384-04(2016) Standard Test Method for Impedance and Absorption of Acoustical Materials by Impedance Tube Method

C390-08(2013) Standard Practice for Sampling and Acceptance of Thermal Insulation Lots

C411-17 Standard Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation

C419-08(2013) Standard Practice for Making and Curing Test Specimens of Mastic Thermal Insulation Coatings

C421-08(2014) Standard Test Method for Tumbling Friability of Preformed Block-Type and Preformed Pipe-Covering-Type Thermal Insulation

C423-17 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method

C447-15 Standard Practice for Estimating the Maximum Use Temperature of Thermal Insulations

C449-07(2013) Standard Specification for Mineral Fiber Hydraulic-Setting Thermal Insulating and Finishing Cement

C450-18 Standard Practice for Fabrication of Thermal Insulating Fitting Covers for NPS Piping, and Vessel Lagging

C461-17 Standard Test Methods for Mastics and Coatings Used With Thermal Insulation

C488-16 Standard Test Method for Conducting Exterior Exposure Tests of Finishes for Thermal Insulation

C516-08(2013)e1 Standard Specification for Vermiculite Loose Fill Thermal Insulation

C518-17 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus

C520-15 Standard Test Methods for Density of Granular Loose Fill Insulations

C522-03(2016) Standard Test Method for Airflow Resistance of Acoustical Materials

C533-17 Standard Specification for Calcium Silicate Block and Pipe Thermal Insulation

C534/C534M-16 Standard Specification for Preformed Flexible Elastomeric Cellular Thermal Insulation in Sheet and Tubular Form

C547-17 Standard Specification for Mineral Fiber Pipe Insulation

C549-06(2012) Standard Specification for Perlite Loose Fill Insulation

C550-15 Standard Test Method for Measuring Trueness and Squareness of Rigid Block and Board Thermal Insulation

C552-17e1 Standard Specification for Cellular Glass Thermal Insulation

C553-13 Standard Specification for Mineral Fiber Blanket Thermal Insulation for Commercial and Industrial Applications

C578-18 Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation

C585-10(2016) Standard Practice for Inner and Outer Diameters of Thermal Insulation for Nominal Sizes of Pipe and Tubing

C591-17 Standard Specification for Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation

C592-16 Standard Specification for Mineral Fiber Blanket Insulation and Blanket-Type Pipe Insulation (Metal-Mesh Covered) (Industrial Type)

C610-17 Standard Specification for Molded Expanded Perlite Block and Pipe Thermal Insulation

C612-14 Standard Specification for Mineral Fiber Block and Board Thermal Insulation

C634-13e1 Standard Terminology Relating to Building and Environmental Acoustics

C635/C635M-17 Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings

C636/C636M-13 Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels

C647-08(2013) Standard Guide to Properties and Tests of Mastics and Coating Finishes for Thermal Insulation

C653-17 Standard Guide for Determination of the Thermal Resistance of Low-Density Blanket-Type Mineral Fiber Insulation

C656-17 Standard Specification for Structural Insulating Board, Calcium Silicate

C665-17 Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing

C667-17 Standard Specification for Prefabricated Reflective Insulation Systems for Equipment and Pipe Operating at Temperatures above Ambient Air

C680-14 Standard Practice for Estimate of the Heat Gain or Loss and the Surface Temperatures of Insulated Flat, Cylindrical, and Spherical Systems by Use of Computer Programs

C686-17 Standard Test Method for Parting Strength of Mineral Fiber Batt- and Blanket-Type Insulation

C687-17 Standard Practice for Determination of Thermal Resistance of Loose-Fill Building Insulation

C692-13 Standard Test Method for Evaluating the Influence of Thermal Insulations on External Stress Corrosion Cracking Tendency of Austenitic Stainless Steel

C726-17 Standard Specification for Mineral Wool Roof Insulation Board

C727-12 Standard Practice for Installation and Use of Reflective Insulation in Building Constructions

C728-17a Standard Specification for Perlite Thermal Insulation Board

C739-17 Standard Specification for Cellulosic Fiber Loose-Fill Thermal Insulation

C740/C740M-13 Standard Guide for Evacuated Reflective Insulation In Cryogenic Service

C755-10(2015)e1 Standard Practice for Selection of Water Vapor Retarders for Thermal Insulation

C764-17 Standard Specification for Mineral Fiber Loose-Fill Thermal Insulation

C795-08(2013) Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel

C800-14 Standard Specification for Fibrous Glass Blanket Insulation (Aircraft Type)

C835-06(2013)e1 Standard Test Method for Total Hemispherical Emittance of Surfaces up to 1400°C

C846-16 Standard Practice for Application of Cellulosic Fiber Insulating Board for Wall Sheathing

C870-11(2017) Standard Practice for Conditioning of Thermal Insulating Materials

C871-18 Standard Test Methods for Chemical Analysis of Thermal Insulation Materials for Leachable Chloride, Fluoride, Silicate, and Sodium Ions

C892-18 Standard Specification for High-Temperature Fiber Blanket Thermal Insulation

C916-14 Standard Specification for Adhesives for Duct Thermal Insulation

C921-10(2015) Standard Practice for Determining the Properties of Jacketing Materials for Thermal Insulation

C929-14 Standard Practice for Handling, Transporting, Shipping, Storage, Receiving, and Application of Thermal Insulation Materials For Use in Contact with Austenitic Stainless Steel

C930-18 Standard Classification of Potential Health and Safety Concerns Associated With Thermal Insulation Materials and Accessories

C945-05(2017) Standard Practice for Design Considerations and Spray Application of a Rigid Cellular Polyurethane Insulation System on Outdoor Service Vessels

C950/C950M-08(2017) Standard Practice for Repair of a Rigid Cellular Polyurethane Insulation System on Outdoor Service Vessels

C991-16 Standard Specification for Flexible Fibrous Glass Insulation for Metal Buildings

C1014-17 Standard Specification for Spray-Applied Mineral Fiber Thermal and Sound Absorbing Insulation

C1015-17 Standard Practice for Installation of Cellulosic and Mineral Fiber Loose-Fill Thermal Insulation

C1029-15 Standard Specification for Spray-Applied Rigid Cellular Polyurethane Thermal Insulation

C1041-10 Standard Practice for In-Situ Measurements of Heat Flux in Industrial Thermal Insulation Using Heat Flux Transducers

C1043-16 Standard Practice for Guarded-Hot-Plate Design Using Circular Line-Heat Sources

C1044-16 Standard Practice for Using a Guarded-Hot-Plate Apparatus or Thin-Heater Apparatus in the Single-Sided Mode

C1045-07(2013) Standard Practice for Calculating Thermal Transmission Properties Under Steady-State Conditions

C1046-95(2013) Standard Practice for In-Situ Measurement of Heat Flux and Temperature on Building Envelope Components

C1055-03(2014) Standard Guide for Heated System Surface Conditions that Produce Contact Burn Injuries

C1057-17 Standard Practice for Determination of Skin Contact Temperature from Heated Surfaces Using a Mathematical Model and Thermesthesiometer

C1058/C1058M-10(2015) Standard Practice for Selecting Temperatures for Evaluating and Reporting Thermal Properties of Thermal Insulation

C1060-11a(2015) Standard Practice for Thermographic Inspection of Insulation Installations in Envelope Cavities of Frame Buildings

C1071-16 Standard Specification for Fibrous Glass Duct Lining Insulation (Thermal and Sound Absorbing Material)

C1086-09(2016) Standard Specification for Glass Fiber Mechanically Bonded Felt Thermal Insulation

C1101/C1101M-06(2017) Standard Test Methods for Classifying the Flexibility or Rigidity of Mineral Fiber Blanket and Board Insulation

C1104/C1104M-13a Standard Test Method for Determining the Water Vapor Sorption of Unfaced Mineral Fiber Insulation

C1114-06(2013) Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Thin-Heater Apparatus

C1126-15 Standard Specification for Faced or Unfaced Rigid Cellular Phenolic Thermal Insulation

C1129-17 Standard Practice for Estimation of Heat Savings by Adding Thermal Insulation to Bare Valves and Flanges

C1130-17 Standard Practice for Calibration of Thin Heat Flux Transducers

C1134-17 Standard Test Method for Water Retention of Rigid Thermal Insulations Following Partial Immersion

C1136-17a Standard Specification for Flexible, Low Permeance Vapor Retarders for Thermal Insulation

C1139-14 Standard Specification for Fibrous Glass Thermal Insulation and Sound Absorbing Blanket and Board for Military Applications

C1146-09(2013) Standard Guide for Prefabricated Panel and H-bar Insulation Systems for Vessels, Ducts and Equipment Operating at Temperatures Above Ambient Air

C1149-17 Standard Specification for Self-Supported Spray Applied Cellulosic Thermal Insulation

C1153-10(2015) Standard Practice for Location of Wet Insulation in Roofing Systems Using Infrared Imaging

C1155-95(2013) Standard Practice for Determining Thermal Resistance of Building Envelope Components from the In-Situ Data

C1199-14 Standard Test Method for Measuring the Steady-State Thermal Transmittance of Fenestration Systems Using Hot Box Methods

C1224-15 Standard Specification for Reflective Insulation for Building Applications

C1258-08(2013) Standard Test Method for Elevated Temperature and Humidity Resistance of Vapor Retarders for Insulation

C1263-95(2015) Standard Test Method for Thermal Integrity of Flexible Water Vapor Retarders

C1289-17 Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board

C1290-16 Standard Specification for Flexible Fibrous Glass Blanket Insulation Used to Externally Insulate HVAC Ducts

C1303/C1303M-15 Standard Test Method for Predicting Long-Term Thermal Resistance of Closed-Cell Foam Insulation

C1304-08(2013) Standard Test Method for Assessing the Odor Emission of Thermal Insulation Materials

C1313/C1313M-13 Standard Specification for Sheet Radiant Barriers for Building Construction Applications

C1320-10(2016) Standard Practice for Installation of Mineral Fiber Batt and Blanket Thermal Insulation for Light Frame Construction

C1321-15 Standard Practice for Installation and Use of Interior Radiation Control Coating Systems (IRCCS) in Building Construction

C1335-12(2017) Standard Test Method for Measuring Non-Fibrous Content of Man-Made Rock and Slag Mineral Fiber Insulation

C1338-14 Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings

C1340/C1340M-10(2015) Standard Practice for Estimation of Heat Gain or Loss Through Ceilings Under Attics Containing Radiant Barriers by Use of a Computer Program

C1363-11 Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus

C1371-15 Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers

C1373/C1373M-11(2017) Standard Practice for Determination of Thermal Resistance of Attic Insulation Systems Under Simulated Winter Conditions

C1374-14 Standard Test Method for Determination of Installed Thickness of Pneumatically Applied Loose-Fill Building Insulation

C1393-14 Standard Specification for Perpendicularly Oriented Mineral Fiber Roll and Sheet Thermal Insulation for Pipes and Tanks

C1409-12 Standard Guide for Measuring and Estimating Quantities of Insulated Piping and Components

C1410-17 Standard Specification for Cellular Melamine Thermal and Sound-Absorbing Insulation

C1423-16 Standard Guide for Selecting Jacketing Materials for Thermal Insulation

C1427-16 Standard Specification for Extruded Preformed Flexible Cellular Polyolefin Thermal Insulation in Sheet and Tubular Form

C1482-17 Standard Specification for Polyimide Flexible Cellular Thermal and Sound Absorbing Insulation

C1483/C1483M-17 Standard Specification for Exterior Solar Radiation Control Coatings on Buildings

C1484-10 Standard Specification for Vacuum Insulation Panels

C1485-13 Standard Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using an Electric Radiant Heat Energy Source

C1497-16 Standard Specification for Cellulosic Fiber Stabilized Thermal Insulation

C1498-04a(2016) Standard Test Method for Hygroscopic Sorption Isotherms of Building Materials

C1511-15 Standard Test Method for Determining the Water Retention (Repellency) Characteristics of Fibrous Glass Insulation (Aircraft Type)

C1512-10(2015)e1 Standard Test Method for Characterizing the Effect of Exposure to Environmental Cycling on Thermal Performance of Insulation Products

C1534-18 Standard Specification for Flexible Polymeric Foam Sheet Insulation Used as a Thermal and Sound Absorbing Liner for Duct Systems

C1549-16 Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer

C1558-16 Standard Guide for Development of Standard Data Records for Computerization of Thermal Transmission Test Data for Thermal Insulation

C1559-15 Standard Test Method for Determining Wicking of Fibrous Glass Blanket Insulation (Aircraft Type)

C1574-04(2013) Standard Guide for Determining Blown Density of Pneumatically Applied Loose-Fill Mineral Fiber Thermal Insulation

C1594-11(2017) Standard Specification for Polyimide Rigid Cellular Thermal Insulation

C1616-07(2018) Standard Test Method for Determining the Moisture Content of Organic and Inorganic Insulation Materials by Weight

C1617-18 Standard Practice for Quantitative Accelerated Laboratory Evaluation of Extraction Solutions Containing Ions Leached from Thermal Insulation on Aqueous Corrosion of Metals

C1630-11(2016) Standard Guide for Development of Coverage Charts for Loose-Fill Thermal Building Insulations

C1639-17 Standard Specification for Fabrication Of Cellular Glass Pipe And Tubing Insulation

C1667-15 Standard Test Method for Using Heat Flow Meter Apparatus to Measure the Center-of-Panel Thermal Transmission Properties of Vacuum Insulation Panels

C1668-13a Standard Specification for Externally Applied Reflective Insulation Systems on Rigid Duct in Heating, Ventilation, and Air Conditioning (HVAC) Systems

C1676/C1676M-14 Standard Specification for Microporous Thermal Insulation

C1685-15 Standard Specification for Pneumatically Applied High-Temperature Fiber Thermal Insulation for Industrial Applications

C1695-18 Standard Specification for Fabrication of Flexible Removable and Reusable Blanket Insulation for Hot Service

C1696-16 Standard Guide for Industrial Thermal Insulation Systems

C1699-09(2015) Standard Test Method for Moisture Retention Curves of Porous Building Materials Using Pressure Plates

C1710-16 Standard Guide for Installation of Flexible Closed Cell Preformed Insulation in Tube and Sheet Form

C1728-17 Standard Specification for Flexible Aerogel Insulation

C1729-17 Standard Specification for Aluminum Jacketing for Insulation

C1729M-17 Standard Specification for Aluminum Jacketing for Insulation

C1743-12 Standard Practice for Installation and Use of Radiant Barrier Systems (RBS) in Residential Building Construction

C1744-12 Standard Practice for Installation and Use of Radiant Barrier Systems (RBS) in Commercial/Industrial Building Construction

C1763-16 Standard Test Method for Water Absorption by Immersion of Thermal Insulation Materials

C1767-16a Standard Specification for Stainless Steel Jacketing for Insulation

C1767M-16a Standard Specification for Stainless Steel Jacketing for Insulation

C1774-13 Standard Guide for Thermal Performance Testing of Cryogenic Insulation Systems

C1775-14 Standard Specification for Laminate Protective Jacket and Tape for Use over Thermal Insulation for Outdoor Applications

C1784-14 Standard Test Method for Using a Heat Flow Meter Apparatus for Measuring Thermal Storage Properties of Phase Change Materials and Products

C1785-17 Standard Test Method for Concentration of Pinhole Detections in Moisture Barriers on Metal Jacketing

C1794-15 Standard Test Methods for Determination of the Water Absorption Coefficient by Partial Immersion

C1809-16 Standard Practice for Preparation of Specimens and Reporting of Results for Permeance Testing of Pressure Sensitive Adhesive Sealed Joints in Insulation Vapor Retarders

C1822-15 Standard Specification for Insulating Covers on Accessible Lavatory Piping

C1848-17a Standard Practice for Installation of High-Pressure Spray Polyurethane Foam Insulation for the Building Enclosure

C1859-17a Standard Practice for Determination of Thermal Resistance of Loose-Fill Building Insulation in Side Wall Applications

C1864-17 Standard Test Method for Determination of Solar Reflectance of Directionally Reflective Material Using Portable Solar Reflectometer

E90-09(2016) Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements

E96/E96M-16 Standard Test Methods for Water Vapor Transmission of Materials

E336-17a Standard Test Method for Measurement of Airborne Sound Attenuation between Rooms in Buildings

E413-16 Classification for Rating Sound Insulation

E477-13e1 Standard Test Method for Laboratory Measurements of Acoustical and Airflow Performance of Duct Liner Materials and Prefabricated Silencers

E492-09(2016)e1 Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine

E557-12 Standard Guide for Architectural Design and Installation Practices for Sound Isolation between Spaces Separated by Operable Partitions

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

E596-96(2016) Standard Test Method for Laboratory Measurement of Noise Reduction of Sound-Isolating Enclosures

E756-05(2017) Standard Test Method for Measuring Vibration-Damping Properties of Materials

E795-16 Standard Practices for Mounting Test Specimens During Sound Absorption Tests

E966-18 Standard Guide for Field Measurements of Airborne Sound Attenuation of Building Facades and Facade Elements

E989-06(2012) Standard Classification for Determination of Impact Insulation Class (IIC)

E1007-16 Standard Test Method for Field Measurement of Tapping Machine Impact Sound Transmission Through Floor-Ceiling Assemblies and Associated Support Structures

E1014-12 Standard Guide for Measurement of Outdoor A-Weighted Sound Levels

E1042-02(2014) Standard Classification for Acoustically Absorptive Materials Applied by Trowel or Spray

E1050-12 Standard Test Method for Impedance and Absorption of Acoustical Materials Using a Tube, Two Microphones and a Digital Frequency Analysis System

E1110-06(2011) Standard Classification for Determination of Articulation Class

E1111/E1111M-14 Standard Test Method for Measuring the Interzone Attenuation of Open Office Components

E1123-86(2016) Standard Practices for Mounting Test Specimens for Sound Transmission Loss Testing of Naval and Marine Ship Bulkhead Treatment Materials

E1124-10(2016) Standard Test Method for Field Measurement of Sound Power Level by the Two-Surface Method

E1130-16 Standard Test Method for Objective Measurement of Speech Privacy in Open Plan Spaces Using Articulation Index

E1179-13 Standard Specification for Sound Sources Used for Testing Open Office Components and Systems

E1222-90(2016) Standard Test Method for Laboratory Measurement of the Insertion Loss of Pipe Lagging Systems

E1264-14 Standard Classification for Acoustical Ceiling Products

E1265-04(2013) Standard Test Method for Measuring Insertion Loss of Pneumatic Exhaust Silencers

E1289-08(2016) Standard Specification for Reference Specimen for Sound Transmission Loss

E1332-16 Standard Classification for Rating Outdoor-Indoor Sound Attenuation

E1374-18e1 Standard Guide for Office Acoustics and Applicable ASTM Standards

E1414/E1414M-16 Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum

E1503-14 Standard Test Method for Conducting Outdoor Sound Measurements Using a Digital Statistical Sound Analysis System

E1573-18 Standard Test Method for Measurement and Reporting of Masking Sound Levels Using A-Weighted and One-Third-Octave-Band Sound Pressure Levels

E1574-98(2014) Standard Test Method for Measurement of Sound in Residential Spaces

E1686-16 Standard Guide for Applying Environmental Noise Measurement Methods and Criteria

E1704-95(2010) Standard Guide for Specifying Acoustical Performance of Sound-Isolating Enclosures

E1780-12 Standard Guide for Measuring Outdoor Sound Received from a Nearby Fixed Source

E2179-03(2016) Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing Impact Sound Transmission Through Concrete Floors

E2202-02(2016) Standard Practice for Measurement of Equipment-Generated Continuous Noise for Assessment of Health Hazards

E2235-04(2012) Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods

E2249-02(2016) Standard Test Method for Laboratory Measurement of Airborne Transmission Loss of Building Partitions and Elements Using Sound Intensity

E2459-05(2016) Standard Guide for Measurement of In-Duct Sound Pressure Levels from Large Industrial Gas Turbines and Fans

E2611-17 Standard Test Method for Normal Incidence Determination of Porous Material Acoustical Properties Based on the Transfer Matrix Method

E2638-10(2017) Standard Test Method for Objective Measurement of the Speech Privacy Provided by a Closed Room

E2963-16 Standard Test Method for Laboratory Measurement of Acoustical Effectiveness of Ship Noise Treatments Laboratory Measurement of Acoustical Effectiveness for Marine Bulkhead and Deck Treatments

E2964-14e1 Standard Test Method for Measurement of the Normalized Insertion Loss of Doors

E3090/E3090M-17 Standard Test Methods for Strength Properties of Metal Ceiling Suspension Systems

E3091-17 Standard Specification for Systems to Measure Sound Levels

E3133-18 Standard Test Method for Laboratory Measurement of Floor Impact Sound Radiation Using the Tapping Machine