

ASTM Volume 04.11, November 2017

Building Constructions (I): E72 – E2166

Table of Contents

E72-15 Standard Test Methods of Conducting Strength Tests of Panels for Building Construction

E73-13 Standard Practice for Static Load Testing of Truss Assemblies

E154/E154M-08a(2013)e1 Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover

E196-06(2012) Standard Practice for Gravity Load Testing of Floors and Low Slope Roofs

E241-09(2014)e1 Standard Guide for Limiting Water-Induced Damage to Buildings

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

E330/E330M-14 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference

E331-00(2016) Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

E405-04(2012) Standard Test Methods for Wear Testing Rotary Operators for Windows

E455-16 Standard Test Method for Static Load

Testing of Framed Floor or Roof Diaphragm
Constructions for Buildings

E488/E488M-15 Standard Test Methods for
Strength of Anchors in Concrete Elements

E529-04(2011) Standard Guide for Conducting
Flexural Tests on Beams and Girders for Building
Construction

E546-14 Standard Test Method for Frost/Dew
Point of Sealed Insulating Glass Units

E547-00(2016) Standard Test Method for Water
Penetration of Exterior Windows, Skylights,
Doors, and Curtain Walls by Cyclic Static Air
Pressure Difference

E564-06(2012) Standard Practice for Static Load
Test for Shear Resistance of Framed Walls for
Buildings

E575-05(2011) Standard Practice for Reporting
Data from Structural Tests of Building
Constructions, Elements, Connections, and
Assemblies

E576-14 Standard Test Method for Frost/Dew
Point of Sealed Insulating Glass Units in the
Vertical Position

E605/E605M-93(2015)e1 Standard Test Methods
for Thickness and Density of Sprayed Fire-
Resistive Material (SFRM) Applied to Structural
Members

E631-15 Standard Terminology of Building
Constructions

E661-03(2015)e1 Standard Test Method for
Performance of Wood and Wood-Based Floor
and Roof Sheathing Under Concentrated Static
and Impact Loads

E695-03(2015)e1 Standard Test Method of

Measuring Relative Resistance of Wall, Floor,
and Roof Construction to Impact Loading

E736/E736M-00(2015)e1 Standard Test Method
for Cohesion/Adhesion of Sprayed Fire-Resistive
Materials Applied to Structural Members

E741-11(2017) Standard Test Method for
Determining Air Change in a Single Zone by
Means of a Tracer Gas Dilution

E754-80(2014)e1 Standard Test Method for
Pullout Resistance of Ties and Anchors
Embedded in Masonry Mortar Joints

E759/E759M-92(2015)e1 Standard Test Method
for Effect of Deflection on Sprayed Fire-Resistive
Material Applied to Structural Members

E760/E760M-92(2015)e1 Standard Test Method
for Effect of Impact on Bonding of Sprayed Fire-
Resistive Material Applied to Structural Members

E761/E761M-92(2015)e1 Standard Test Method
for Compressive Strength of Sprayed Fire-
Resistive Material Applied to Structural Members

E779-10 Standard Test Method for Determining
Air Leakage Rate by Fan Pressurization

E783-02(2010) Standard Test Method for Field
Measurement of Air Leakage Through Installed
Exterior Windows and Doors

E833-14 Standard Terminology of Building
Economics

E859/E859M-93(2015)e1 Standard Test Method
for Air Erosion of Sprayed Fire-Resistive
Materials (SFRMs) Applied to Structural
Members

E864-12 Standard Practice for Surface
Preparation of Aluminum Alloys to Be Adhesively
Bonded in Honeycomb Shelter Panels

E865-12 Standard Specification for Structural Film Adhesives for Honeycomb Sandwich Panels

E866-11 Standard Specification for Corrosion-Inhibiting Adhesive Primer for Aluminum Alloys to Be Adhesively Bonded in Honeycomb Shelter Panels

E874-11 Standard Practice for Adhesive Bonding of Aluminum Facings to Nonmetallic Honeycomb Core for Shelter Panels

E894-88(2010) Standard Test Method for Anchorage of Permanent Metal Railing Systems and Rails for Buildings

E917-15 Standard Practice for Measuring Life-Cycle Costs of Buildings and Building Systems

E935-13e1 Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings

E937/E937M-93(2015)e1 Standard Test Method for Corrosion of Steel by Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members

E964-15 Standard Practice for Measuring Benefit-to-Cost and Savings-to-Investment Ratios for Buildings and Building Systems

E987-88(2017) Standard Test Methods for Deglazing Force of Fenestration Products

E990-13 Standard Specification for Core-Splice Adhesive for Honeycomb Sandwich Structural Panels

E997-15 Standard Test Method for Evaluating Glass Breakage Probability Under the Influence of Uniform Static Loads by Proof Load Testing

E998-12 Standard Test Method for Structural Performance of Glass in Windows, Curtain Walls, and Doors Under the Influence of Uniform Static

Loads by Nondestructive Method

E1057-15 Standard Practice for Measuring Internal Rate of Return and Adjusted Internal Rate of Return for Investments in Buildings and Building Systems

E1074-15 Standard Practice for Measuring Net Benefits and Net Savings for Investments in Buildings and Building Systems

E1091-13 Standard Specification for Nonmetallic Honeycomb Core for Use in Shelter Panels

E1105-15 Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference

E1121-15 Standard Practice for Measuring Payback for Investments in Buildings and Building Systems

E1155-14 Standard Test Method for Determining FFFloor Flatness and FL Floor Levelness Numbers

E1155M-14 Standard Test Method for DeterminingFF Floor Flatness and FL Floor Levelness Numbers (Metric)

E1185-15 Standard Guide for Selecting Economic Methods for Evaluating Investments in Buildings and Building Systems

E1186-17 Standard Practices for Air Leakage Site Detection in Building Envelopes and Air Barrier Systems

E1190-11 Standard Test Methods for Strength of Power-Actuated Fasteners Installed in Structural Members

E1233/E1233M-14 Standard Test Method for

Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Cyclic Air Pressure Differential

E1258-88(2012) Standard Test Method for Airflow Calibration of Fan Pressurization Devices

E1300-16 Standard Practice for Determining Load Resistance of Glass in Buildings

E1307-10 Standard Practice for Surface Preparation and Structural Adhesive Bonding of Precured, Nonmetallic Composite Facings to Structural Core for Flat Shelter Panels

E1369-15 Standard Guide for Selecting Techniques for Treating Uncertainty and Risk in the Economic Evaluation of Buildings and Building Systems

E1399/E1399M-97(2017) Standard Test Method for Cyclic Movement and Measuring the Minimum and Maximum Joint Widths of Architectural Joint Systems

E1423-14 Standard Practice for Determining Steady State Thermal Transmittance of Fenestration Systems

E1424-91(2016) Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure and Temperature Differences Across the Specimen

E1425-14 Standard Practice for Determining the Acoustical Performance of Windows, Doors, Skylight, and Glazed Wall Systems

E1480-92(2013) Standard Terminology of Facility Management (Building-Related)

E1481-00a(2014)e1 Standard Terminology of Railing Systems and Rails for Buildings

E1486-14 Standard Test Method for Determining Floor Tolerances Using Waviness, Wheel Path and Levelness Criteria

E1486M-14 Standard Test Method for Determining Floor Tolerances Using Waviness, Wheel Path and Levelness Criteria (Metric)

E1509-12(2017) Standard Specification for Room Heaters, Pellet Fuel-Burning Type

E1512-01(2015) Standard Test Methods for Testing Bond Performance of Bonded Anchors

E1513/E1513M-93(2015)e1 Standard Practice for Application of Sprayed Fire-Resistive Materials (SFRMs)

E1514-98(2011) Standard Specification for Structural Standing Seam Steel Roof Panel Systems

E1554/E1554M-13 Standard Test Methods for Determining Air Leakage of Air Distribution Systems by Fan Pressurization

E1555-12 Standard Specification for Structural Paste Adhesive for Sandwich Panel Repair

E1556-12 Standard Specification for Epoxy Resin System for Composite Skin, Honeycomb Sandwich Panel Repair

E1557-09(2015) Standard Classification for Building Elements and Related Sitework—UNIFORMAT II

E1583-17 Standard Practice for Evaluating Laboratories Engaged in Determination of Lead in Paint, Dust, Airborne Particulates, and Soil Taken From and Around Buildings and Related Structures

E1592-05(2012) Standard Test Method for Structural Performance of Sheet Metal Roof and

Siding Systems by Uniform Static Air Pressure Difference

E1602-03(2017) Standard Guide for Construction of Solid Fuel Burning Masonry Heaters

E1605-04(2012) Standard Terminology Relating to Lead in Buildings

E1612/E1612M-94(2017) Standard Specification for Preformed Architectural Compression Seals for Buildings and Parking Structures

E1613-12 Standard Test Method for Determination of Lead by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES), Flame Atomic Absorption Spectrometry (FAAS), or Graphite Furnace Atomic Absorption Spectrometry (GFAAS) Techniques

E1637-98(2011) Standard Specification for Structural Standing Seam Aluminum Roof Panel Systems

E1643-11(2017) Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs

E1644-17 Standard Practice for Hot Plate Digestion of Dust Wipe Samples for the Determination of Lead

E1645-16 Standard Practice for Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead Analysis

E1646-95(2011) Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference

E1660-95a(2012) Standard Classification for Serviceability of an Office Facility for Support for Office Work

E1661-95a(2012) Standard Classification for Serviceability of an Office Facility for Meetings and Group Effectiveness

E1662-95a(2012) Standard Classification for Serviceability of an Office Facility for Sound and Visual Environment

E1663-03(2010) Standard Classification for Serviceability of an Office Facility for Typical Office Information Technology

E1664-95a(2012) Standard Classification for Serviceability of an Office Facility for Layout and Building Factors

E1665-95a(2012) Standard Classification for Serviceability of an Office Facility for Facility Protection

E1666-95a(2012) Standard Classification for Serviceability of an Office Facility for Work Outside Normal Hours or Conditions

E1667-95a(2012) Standard Classification for Serviceability of an Office Facility for Image to the Public and Occupants

E1668-95a(2012) Standard Classification for Serviceability of an Office Facility for Amenities to Attract and Retain Staff

E1669-95a(2012) Standard Classification for Serviceability of an Office Facility for Location, Access and Wayfinding

E1670-95a(2012) Standard Classification for Serviceability of an Office Facility for Management of Operations and Maintenance

E1671-95a(2012) Standard Classification for Serviceability of an Office Facility for Cleanliness

E1677-11 Standard Specification for Air Barrier (AB) Material or System for Low-Rise Framed

Building Walls

E1679-13 Standard Practice for Setting the Requirements for the Serviceability of a Building or Building-Related Facility, and for Determining What Serviceability is Provided or Proposed

E1680-16 Standard Test Method for Rate of Air Leakage through Exterior Metal Roof Panel Systems

E1692-95a(2012) Standard Classification for Serviceability of an Office Facility for Change and Churn by Occupants

E1693-95(2012) Standard Classification for Serviceability of an Office Facility for Protection of Occupant Assets

E1694-95a(2012) Standard Classification for Serviceability of an Office Facility for Special Facilities and Technologies

E1699-14 Standard Practice for Performing Value Engineering (VE)/Value Analysis (VA) of Projects, Products and Processes

E1700-16 Standard Classification for Serviceability of an Office Facility for Structure and Building Envelope

E1701-95(2012) Standard Classification for Serviceability of an Office Facility for Manageability

E1726-16 Standard Practice for Preparation of Soil Samples by Hotplate Digestion for Subsequent Lead Analysis

E1727-16 Standard Practice for Field Collection of Soil Samples for Subsequent Lead Determination

E1728-16 Standard Practice for Collection of Settled Dust Samples Using Wipe Sampling

Methods for Subsequent Lead Determination

E1729-16 Standard Practice for Field Collection of Dried Paint Samples for Subsequent Lead Determination

E1730-15 Standard Specification for Rigid Foam for Use in Structural Sandwich Panel Cores

E1745-17 Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs

E1748-95(2017) Standard Test Method for Evaluating the Engagement Between Windows and Insect Screens as an Integral System

E1749-10 Standard Terminology Relating to Rigid Wall Relocatable Shelters

E1753-13 Standard Practice for Use of Qualitative Chemical Spot Test Kits for Detection of Lead in Dry Paint Films

E1765-16 Standard Practice for Applying Analytical Hierarchy Process (AHP) to Multiattribute Decision Analysis of Investments Related to Projects, Products, and Processes

E1773-10 Standard Practice for Sealing Rigid Wall Tactical Shelters with Polysulfide Based Sealants

E1775-16 Standard Guide for Evaluating Performance of On-Site Extraction and Field-Portable Electrochemical or Spectrophotometric Analysis for Lead

E1783/E1783M-96(2017) Standard Specification for Preformed Architectural Strip Seals for Buildings and Parking Structures

E1792-03(2016) Standard Specification for Wipe Sampling Materials for Lead in Surface Dust

E1793-11 Standard Practice for Preparation of

Aluminum Alloy for Bonding in Foam and Beam
Type Transportable Shelters

E1794-13 Standard Specification for Adhesive for
Bonding Foam Cored Sandwich Panels (200°F
Elevated Humidity Service), Type II Panels

E1795-17 Standard Specification for Non-
Reinforced Liquid Coating Encapsulation
Products for Leaded Paint in Buildings

E1796-03(2016) Standard Guide for Selection
and Use of Liquid Coating Encapsulation
Products for Leaded Paint in Buildings

E1797-12 Standard Specification for Reinforced
Liquid Coating Encapsulation Products for
Leaded Paint in Buildings

E1800-13 Standard Specification for Adhesive for
Bonding Foam Cored Sandwich Panels (160°F
Elevated Humidity Service), Type I Panels

E1801-15 Standard Practice for Adhesive
Bonding of Aluminum Facings in Foam and
Beam Type Shelters

E1803-14 Standard Test Methods for
Determining Strength Capacities of Structural
Insulated Panels

E1804-16 Standard Practice for Performing and
Reporting Cost Analysis During the Design
Phase of a Project

E1825-06(2012) Standard Guide for Evaluation
of Exterior Building Wall Materials, Products, and
Systems

E1826-12 Standard Specification for Low Volatile
Organic Compound (VOC) Corrosion-Inhibiting
Adhesive Primer for Aluminum Alloys to Be
Adhesively Bonded

E1827-11(2017) Standard Test Methods for

Determining Airtightness of Buildings Using an Orifice Blower Door

E1836/E1836M-09(2016) Standard Practice for Building Floor Area Measurements for Facility Management

E1851-15 Standard Test Method for Electromagnetic Shielding Effectiveness of Durable Rigid Wall Relocatable Structures

E1857-97(2013)e1 Standard Guide for Selection of Cleaning Techniques for Masonry, Concrete, and Stucco Surfaces

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

E1908-16 Standard Guide for Sample Selection of Debris Waste from a Building Renovation or Lead Abatement Project for Toxicity Characteristic Leaching Procedure (TCLP) Testing for Leachable Lead (Pb)

E1925-10 Specification for Engineering and Design Criteria for Rigid Wall Relocatable Structures

E1946-12 Standard Practice for Measuring Cost Risk of Buildings and Building Systems and Other Constructed Projects

E1974-11 Standard Specification for Shelter, Electrical Equipment S-250/G

E1975-15 Standard Specification for Shelter, Electrical, Equipment S-280/G

E1976-11 Standard Specification for Shelter, Tactical, Nonexpandable

E1977-11 Standard Specification for Shelter,

Tactical, Expandable, One-Side

E1978-11 Standard Specification for Shelter,
Tactical, Expandable, Two-Side

E1979-17 Standard Practice for Ultrasonic
Extraction of Paint, Dust, Soil, and Air Samples
for Subsequent Determination of Lead

E1993/E1993M-98(2013)e1 Standard
Specification for Bituminous Water Vapor
Retarders Used in Contact with Soil or Granular
Fill Under Concrete Slabs

E1996-14a Standard Specification for
Performance of Exterior Windows, Curtain Walls,
Doors, and Impact Protective Systems Impacted
by Windborne Debris in Hurricanes

E1998-11 Standard Guide for Assessing
Depressurization-Induced Backdrafting and
Spillage from Vented Combustion Appliances

E2004-10 Standard Test Method for Facing
Cleavage of Sandwich Panels

E2013-12 Standard Practice for Constructing
FAST Diagrams and Performing Function
Analysis During Value Analysis Study

E2026-16a Standard Guide for Seismic Risk
Assessment of Buildings

E2029-11 Standard Test Method for Volumetric
and Mass Flow Rate Measurement in a Duct
Using Tracer Gas Dilution

E2068-00(2016) Standard Test Method for
Determination of Operating Force of Sliding
Windows and Doors

E2083-05(2016) Standard Classification for
Building Construction Field Requirements, and
Office Overhead & Profit

E2098/E2098M-13 Standard Test Method for

Determining Tensile Breaking Strength of Glass
Fiber Reinforcing Mesh for Use in Class PB
Exterior Insulation and Finish Systems (EIFS),
after Exposure to a Sodium Hydroxide Solution

E2099-00(2014)e1 Standard Practice for the
Specification and Evaluation of Pre-Construction
Laboratory Mockups of Exterior Wall Systems

E2103/E2103M-13 Standard Classification for
Bridge Elements—UNIFORMAT II

E2110-17 Standard Terminology for Exterior
Insulation and Finish Systems (EIFS)