



Standard Guide for Selection of Standards on Environmental Acoustics¹

This standard is issued under the fixed designation E 1433; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This guide is intended to assist acoustical consultants, architects, specifiers, and others in understanding ASTM standards in environmental acoustics, so that building specifications and other documents can accurately refer to relevant standards. The full standards are found in alphanumeric order in Volume 04.06 of the *Annual Book of ASTM Standards*.

1.2 The scope of Committee E33 is: “The development of standards on the characteristics and performance of materials, products, systems, and services relating to the acoustical environment and the promotion of related knowledge.” Only standards under the jurisdiction of Committee E33 are included in this guide. Additional standards related to environmental acoustics may be found under the jurisdiction of other ASTM committees.

1.3 None of the discussions herein is sufficiently detailed to substitute for reading the full standard. Only a careful reading of a standard will provide a complete understanding of its function. This guide is specifically **NOT** to be used as a direct reference in building specifications. Only the original standard gives sufficient information to serve as a specification reference.

2. Referenced Documents

2.1 *ASTM Standards*:²

- C 367** Test Methods for Strength Properties of Prefabricated Architectural Acoustical Tile or Lay-In Ceiling Panels
- C 384** Test Method for Impedance and Absorption of Acoustical Materials by the Impedance Tube Method
- C 423** Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method

- C 522** Test Method for Airflow Resistance of Acoustical Materials
- C 634** Terminology Relating to Environmental Acoustics
- C 635** Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings
- C 636** Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels
- E 84** Test Method for Surface Burning Characteristics of Building Materials
- E 90** Test Method for Laboratory Measurement of Airborne-Sound Transmission Loss of Building Partitions and Elements
- E 336** Test Method for Measurement of Airborne Sound Insulation in Buildings
- E 413** Classification for Rating Sound Insulation
- E 477** Test Method for Measuring Acoustical and Airflow Performance of Duct Liner Materials and Prefabricated Silencers
- E 492** Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine
- E 497** Practice for Installing Sound-Isolating Lightweight Partitions
- E 557** Guide for the Installation of Operable Partitions
- E 580** Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Requiring Seismic Restraint
- E 596** Test Method for Laboratory Measurement of the Noise Reduction of Sound-Isolating Enclosures
- E 717** Guide for Preparation of the Accreditation Annex of Acoustical Test Standards
- E 756** Test Method for Measuring Vibration-Damping Properties of Materials
- E 795** Practices for Mounting Test Specimens During Sound Absorption Tests
- E 966** Guide for Field Measurement of Airborne Sound Insulation of Building Facades and Facade Elements
- E 989** Classification for Determination of Impact Insulation Class (IIC)

¹ This guide is under the jurisdiction of ASTM Committee E33 on Environmental Acoustics and is the direct responsibility of Subcommittee E33.04 on Application of Acoustical Materials and Systems.

Current edition approved August 1, 2004. Published August 2004. Originally approved in 1991. Last previous edition approved 1995 as E 1433 – 95.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.