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ASTM E413-87(1999) Classification for rating sound insulation

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Abbreviation

ASTM E413-87(1999)

Valid from

01/01/1987

Information provider

American Society of Testing and Materials

Author

American Society of Testing and Materials

Information type

ASTM Standard

Format

PDF

Cited By

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Cites

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Description

This classification provides methods of calculating single-number acoustical ratings for laboratory and field measurements of sound transmission obtained in one-third octave bands. The method may be applied to laboratory or field measurements of the sound transmission loss of a partition in which case the single-number ratings are called sound transmission class (STC) or field sound transmission class (FSTC), respectively. The method may also be applied to laboratory and field measurements of the sound isolation between two spaces, in which case the single-number ratings are called the noise isolation class (NIC) or normalized noise isolation class (NNIC).

Scope

This classification provides methods of calculating single-number acoustical ratings for laboratory and field measurements of sound transmission obtained in one-third octave bands. The method may be applied to laboratory or field measurements of the sound transmission loss of a partition in which case the single-number ratings are called sound transmission class (STC) or field sound transmission class (FSTC), respectively. The method may also be applied to laboratory and field measurements of the sound isolation between two spaces, in which case the single-number ratings are called the noise isolation class (NIC) or normalized noise isolation class (NNIC).

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- [G6/VM1 \(First Edition, Amendment 2\)](#)

ASTM E413-87(1999) is cited by Verification Method G6/VM1: Airborne and Impact Sound from 01/07/1992

- [ASTM E336-90](#)

ASTM E413-87(1999) is cited by ASTM E336-90 Method for measurement of airborne sound insulation in buildings

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Other

- [ASTM C634-85](#)

ASTM E413-87(1999) cites ASTM C634-85 Standard Definitions of Terms Relating to Environmental Acoustics

- [ASTM E336-84](#)

ASTM E413-87(1999) cites ASTM E336-84 STANDARD TEST METHOD FOR MEASUREMENT OF AIRBORNE SOUND INSULATION IN BUILDINGS

- [ASTM E596 \(1986\)](#)

ASTM E413-87(1999) cites ASTM E596 (1986) STANDARD METHOD FOR LABORATORY MEASUREMENT OF THE NOISE REDUCTION OF SOUND-ISOLATING ENCLOSURES

- [ASTM E90 \(1985\)](#)

ASTM E413-87(1999) cites ASTM E90 (1985) STANDARD METHOD FOR LABORATORY MEASUREMENT OF AIRBORNE SOUND TRANSMISSION LOSS OF BUILDING PARTITIONS

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