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ASTM E492-90 Test Method of Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine

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Abbreviation

ASTM E492-90

Valid from

27/04/1990

Information provider

IHS Markit

Author

American Society of Testing and Materials

Information type

ASTM Standard

Format

PDF, Hard copy

Cited By

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Cites

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Description

This test method covers the laboratory measurement of impact sound transmission of floor-ceiling assemblies using a standardized tapping machine. It is assumed that the test specimen constitutes the primary sound transmission path into a receiving room located directly below and that a diffuse sound field exists in this room.

Scope

This test method covers the laboratory measurement of impact sound transmission of floor-ceiling assemblies using a standardized tapping machine. It is assumed that the test specimen constitutes the primary sound transmission path into a receiving room located directly below and that a diffuse sound field exists in this room.

Measurements may be conducted on floor-ceiling assemblies of all kinds, including those with floating-floor or suspended ceiling elements, or both, and floor-ceiling assemblies surfaced with any type of floor-surfacing or floor-covering materials.

This test method prescribes a uniform procedure for reporting laboratory test data, that is, the normalized one-third octave band sound pressure levels transmitted by the floor-ceiling assembly due to the tapping machine.

This Standard does not purport to address the safety concerns, if any, associated with its use. It is the responsibility of the user of this Standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

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

ASTM E492-90 is cited by Verification Method G6/VM1: Airborne and Impact Sound from 01/12/1995

Back

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Description

This test method covers the laboratory measurement of impact sound transmission of floor-ceiling assemblies using a standardized tapping machine. It is assumed that the test specimen constitutes the primary sound transmission path into a receiving room located directly below and that a diffuse sound field exists in this room.

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This document CITES:

Other

- [ANSI/ASA S1.11 \(1986\)](#)

ASTM E492-90 cites ANSI/ASA S1.11 (1986) Standard Specification for Octave-Band and Fractional-Octave-Band Analog and Digital Filters

- [ASTM C423-89](#)

ASTM E492-90 cites ASTM C423-89 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method

- [ASTM E548 \(1984\)](#)

ASTM E492-90 cites ASTM E548 (1984) Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.

- [ASTM E989 - 89\(1999\)](#)

ASTM E492-90 cites ASTM E989 - 89(1999) Standard Classification for determination of impact insulation class (IIC)

Back

Close

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