

AS/NZS ISO 140.7:2006

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Australian/New Zealand Standard™

**Acoustics—Measurement of sound
insulation in buildings and of building
elements**

**Part 7: Field measurements of impact
sound insulation of floors
(ISO 140-7:1998, MOD)**



AS/NZS ISO 140.7:2006

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee AV-004, Acoustics Architectural. It was approved on behalf of the Council of Standards Australia on 6 January 2006 and on behalf of the Council of Standards New Zealand on 20 January 2006.

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The following are represented on Committee AV-004:

Association of Acoustical Consultants
Australian Acoustical Society
Australian Building Codes Board
Australian Chamber of Commerce and Industry
Australian Defence Force Academy
Building Industry Authority, New Zealand
CSIRO Manufacturing & Infrastructure Technology
Department of Commerce, NSW
National Acoustic Laboratories
New Zealand Acoustical Society
Property Council of Australia
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PREFACE

This Standard was prepared by the Joint Standards Australian/Standards New Zealand Committee AV-004, Acoustical Architectural.

This Standard has been adopted with national modifications and has been reproduced from ISO 140-7:1998. These changes have been made to allow for direct measurements in a receiving room.

Appendix ZZ lists the variations between this Standard and ISO 140-7:1998. For the purpose of this Standard, the ISO text is amended, supplemented or replaced as set out in Appendix ZZ.

The objective of this Standard is to specify field methods for measuring the impact sound insulation properties of buildings floors by using a standard tapping machine. This method is applicable to bare floors and also to floors with coverings.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source test ‘this part of ISO 140’ should read ‘this Australian/New Standard Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

For Australia only, this Standard provides for the use of the following Australian Standards in place of particular International Standards referenced herein:

| <i>Reference to International Standard*</i> | | <i>Australian/New Zealand Standard</i> | |
|---|---|--|--|
| ISO | | AS | |
| 140 | Acoustics—Measurement at sound insulation in buildings and of building elements | 1191 | Acoustics—Method for laboratory measurement of airborne sound transmission insulation of building elements |
| 140-3 | Part 3: Laboratory measurements of airborne sound insulation of building elements | | |
| 354 | Acoustics—Measurement of sound absorption in a reverberation room | 1045 | Acoustics—Measurement of sound absorption in a reverberation room |
| | | AS ISO | |
| 717 | Acoustics—Rating of sound insulation in buildings and of building elements | 717 | Acoustics—Rating of sound insulation in buildings and of building elements |
| 717-2 | Part 2: Impact sound insulation | 717.2 | Part 2: Impact sound insulation |
| IEC | | AS IEC | |
| 60651 | Sound level meters | 61672 | Electroacoustics—Sound level meters |
| | | 61672.1 | Part 1: Specifications |
| | | 61672.2 | Part 2: Pattern evaluation tests |

For New Zealand, the normative references listed in Clause 2 are applicable.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the annex or appendix to which they apply. A ‘normative’ annex or appendix is an integral part of a Standard, whereas an ‘informative’ annex or appendix is only for information and guidance.

* Only referenced International Standards that have been adopted an Australian Standard have been listed.

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