

Australian/New Zealand Standard™

**Acoustics—Measurement of the  
reverberation time in rooms**



Standards Australia



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NEW ZEALAND  
*Te Kaitiaki Take Kōwhiri*

## **AS/NZS 2460:2002**

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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 29 June 2001 and on behalf of the Council of Standards New Zealand on 1 February 2002. It was published on 21 February 2002.

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The following interests are represented on Committee AV-004:

Association of Australian Acoustical Consultants  
Australian Acoustical Society  
Australian Building Codes Board  
Australian Chamber of Commerce and Industry  
Australian Defence Force Academy  
Australian Hearing  
Building Industry Authority New Zealand  
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## **Acoustics—Measurement of the reverberation time in rooms**

Originated as AS 2460—1981.  
Jointly revised and designated AS/NZS 2460:2002.

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Jointly published by Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 4048 0

## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee, AV-004, Acoustics, Architectural, to supersede AS 2460—1981, *Acoustics—Measurement of reverberation time in enclosures*.

The objective of this Standard is to specify methods for the measurement of reverberation time in rooms. This Standard applies to any room in which reverberation time is an important factor affecting the quality of sound in the room, or where reverberation control is used for noise control purposes.

During preparation of this Standard, cognizance was taken of ISO 3382:1997, *Acoustics—Measurement of the reverberation time of rooms with reference to other acoustical parameters*. This Standard incorporates a number of technical changes from ISO 3382:1997, most notably the specification for the nature of the sound source. Conventional loudspeakers, properly located and oriented, may be used as the test sound source in lieu of omnidirectional loudspeakers, where appropriate. An installed sound system may be used to excite the room under certain circumstances.

This Standard should be read by a person who has acquired through training, qualifications or experience, or a combination of these, the knowledge and skills enabling that person to perform the task required.

Appendix B, *Auditorium measures derived from impulse responses*, is technically equivalent to Annex A of ISO 3382:1997. It presents several quantities that can be obtained from measured impulse responses, namely, a further measure of reverberation (early decay time) and measures of relative sound levels, early/late energy fractions and lateral energy fractions. Subjective studies of the acoustical characteristics of auditoria have shown that these quantities are correlated with particular subjective aspects of the acoustical character of an auditorium. However, there is still work to be done in determining which measures are the most suitable as bases for standardization.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.

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