AS 5336:2019
ISO 3745:2012
ISO 3745:2012/Amd 1:2017
(Incorporating Amendment No. 1)

AS 5336:2019

Australian STANDARD

Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Precision methods for anechoic rooms and hemi-anechoic rooms

STANDARDS Australia

AS 5336:2019

This Australian Standard® was prepared by EV-010, Acoustics Community Noise. It was approved on behalf of the Council of Standards Australia on 15 April 2019.

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The following are represented on Committee EV-010:

Association of Australasian Acoustical Consultants
Australian Acoustical Society
Austroads
Bureau of Steel Manufacturers of Australia
Department of Defence (Australian Government)
Engineers Australia
Master Builders Australia
University of Sydney

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Preface

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee EV-010, Acoustics Community Noise.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

Changes to the Preface required by Amendment No. 1 of AS 5336:2019 are indicated in the text by a marginal bar.

The objective of this Standard is to specify methods for measuring the sound pressure levels on a measurement surface enveloping a noise source (machinery and equipment) in an anechoic room or a hemi-anechoic room, in order to determine the sound power level or sound energy level produced by the noise source. This Standard specifies requirements for the test environment and instrumentation, as well as techniques for obtaining the surface sound pressure level from which the sound power level or sound energy level is calculated, leading to results which have a grade 1 accuracy.

A1 This Standard is identical with, and has been reproduced from, ISO 3745:2012, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Precision methods for anechoic rooms and hemi-anechoic rooms and its Amendment 1 (2017) which is added following the source text.*

This Amendment replaces Annex A with procedures for qualification of anechonic and hemi-anechonic rooms.

As this document has been reproduced from an International Standard, the following applies:

(a) In the source text “this International Standard” should read “this Australian Standard”.

(b) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an ‘informative’ appendix or annex is only for information and guidance.

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