AS 5332:2019
ISO 3741:2010

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Australian STANDARD

Acoustics — Determination of sound power levels of noise sources — Guidelines for the use of basic standards

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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
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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.

The objective of this Standard is to specify methods for determining the sound power level or sound energy level of a noise source from sound pressure levels measured in a reverberation test room. The sound power level (or, in the case of noise bursts or transient noise emission, the sound energy level) produced by the noise source, in frequency bands of width one-third-octave with mid-band frequencies from 100 Hz to 10 000 Hz, is calculated using those measurements, including corrections to allow for any differences between the meteorological conditions at the time and place of the test and those corresponding to a reference characteristic impedance. Measurement and calculation procedures are given for both a direct method and a comparison method of determining the sound power level and the sound energy level.

The methods in this Standard are suitable for all types of noise (e.g. steady, non-steady, fluctuating, isolated bursts of sound energy, etc.) as defined in ISO 12001.

This Standard is identical with, and has been reproduced from, ISO 3741:2010, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Precision methods for reverberation test rooms*.

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