

ISO 3741:2010-10 (E)

Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for reverberation test rooms

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	2
3	Terms and definitions	2
4	Reference meteorological conditions	6
5	Reverberation test room	6
6	Instrumentation and measurement equipment	10
7	Definition, location, installation, and operation of noise source under test	10
8	Measurements in the reverberation test room	12
9	Determination of sound power levels and sound energy levels	19
10	Measurement uncertainty	27
11	Information to be recorded	30
12	Test report	31
Annex A (informative) Guidelines for the design of reverberation test rooms		32
Annex B (informative) Guidelines for the design of rotating diffusing vanes		34
Annex C (normative) Reverberation test room qualification procedure for the measurement of broad-band sound		35
Annex D (normative) Reverberation test room qualification procedure for the measurement of discrete-frequency components		37
Annex E (informative) Extension of frequency range to frequencies below 100 Hz		42
Annex F (normative) Calculation of octave band sound power levels and sound energy levels, A-weighted sound power levels and A-weighted sound energy levels from one-third-octave band levels		45
Annex G (informative) Guidelines on the development of information on measurement uncertainty		48
Bibliography		60