

ISO 10848-5:2020 (E)

Acoustics — Laboratory and field measurement of the flanking transmission for airborne, impact and building service equipment sound between adjoining rooms — Part 5: Radiation efficiencies of building elements

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Instrumentation
5	Test arrangement
6	Measurement methods
6.1	General
6.2	Measurement of $L_{\sigma,a}$
6.2.1	Generation of sound field in the source room
6.2.2	Measurement of the average sound pressure level in the receiving room
6.2.3	Measurement of reverberation time of the room and evaluation of the equivalent sound absorption area
6.2.4	Measurement of the average velocity level of the element
6.2.5	Calculation of the radiation index
6.3	Measurement of $L_{\sigma,s}$
6.3.1	Generation of vibration on the source element
6.3.2	Procedure for Type A and Type B elements
6.3.3	Measurement using stationary excitation
6.3.4	Measurement using transient excitation
6.3.5	Measurement of reverberation time and evaluation of the equivalent sound absorption area
6.3.6	Radiation index calculation
7	Precision
8	Expression of results
9	Test report
Annex A	(informative) Measurement of radiation efficiency using sound intensity
A.1	General
A.2	Measurement procedure
A.3	Calculation of the intensity radiation index